Systems

OS/VS System Modification Program (SMP) Logic



Sixth Edition (October, 1978)

This is a major revision of, and obsoletes SY28-0685-4. See the Summary of Amendments following the Contents.

This edition applies to the System Modification Program (SMP) for all supported releases of OS/VS1 and OS/VS2. This edition applies to all subsequent releases of OS/VS unless otherwise indicated in new editions or Technical Newsletters. Changes are continually made to the information herein; before using this publication in connection with the operation of IBM systems, consult the latest IBM System/370 Bibliography, GC20-0001, for the editions that are applicable and current.

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NOTE: Each page of SMP output includes an indicator denoting | the SMP level being executed. The indicator is in the | form xx.yy where:

- xx is the release level of SMP, increased by 1 for each subsequent release.
- yy is the PTF level within the release level, increased by 1 for each SMP PTF released that applies to the xx SMP level.

This publication, SY28-0685-5, corresponds to level 04.00.

<u>Preface</u>

This publication describes the internal logic and organization of the System Modification Program (SMP). This information is intended for the IBM program system representative who is responsible for putting system modifications into the user's operating system. For information about the use and operation of SMP, refer to OS/VS System Modification Program (SMP) System Programmer's Guide, GC 28-0673.

This publication, when used with the program listing, enables you to understand the internal operation of SMP and to make changes to it when necessary.

This publication does not replace the program listings; it supplements them and makes the information in them more accessible.

The publication contains six sections:

Section 1: Introduction - describes SMP's functions and includes general information about SMP.

Section 2: Method of Operation - shows, through functional flow diagrams, the processing steps and data flow of each major SMP process. The diagrams are designed to guide the reader to a particular module in the program listings. This section also describes SMP return code standards.

Section 3: Program Organization - describes each processing area and provides an overview of the module flow within each process.

Section 4: Directory - refers you to cross reference information by module, including the method of operation diagram number in which the module is contained and the calling-module/module-called relationships.

Section 5: Data Areas - contains descriptions of the major SMP data areas and parameter lists, and gives you cross reference information to the SMP modules that use the data areas.

Section 6: Diagnostic Aids - provides you with a cross reference listing of external symbol usage by SMP modules, and associates SMP diagnostic messages with the SMP modules that issue them.

Reference Publications

OS/VS System Modification Program (SMP) System Programmer's Guide GC28-0673.

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Summary Of Amendments for SY28-0685-5

This publication contains updated and revised information in all sections. The major changes are:

New Modules

The following new modules have been added to SMP:

HMAS MA AR	HMASMBUR	HMASMCRD	HMASMDR1	HMASMFVL
HMASMALC	HMASMCIL	HMASMCRW	HMASMDR2	HMASMFXF
HMASMAR4	HMASMCOM	HM AS MDC1	HMASMDS1	HM ASMIO1
HMASMBDL	HMASMCPL	HMASMDC2	HMASMDSU	HM ASMLCC
HMASMBUE	HMASMCP2	HMASMDLE	HMASMFPT	HM ASMLCP
HMASMLC1	HMASMMPI	HMASMRCF	HMASMSTA	HMASMTCR
HMASMLID	HMA SM MP V	HMASMRCL	HMASMTAD	HMASMTDD
HMASMMPD	HMASMPGC	HMASMRJD	HMASMTAI	HM ASMTD1
HMASMMPE	HMASMRCC	HMASMSEC	HMASMTBM	HM ASMTEC
HMASMMPH	HMASMRCD	HMASMSER	HMASMTCL	HM ASMTL3
HMASMTMD	HMASMTM4	HMASMTPO	HMASMTR1	HM ASMUC3
HMASMTMJ	HMASMTPA	HMASMTPR	HMASMTSB	HM ASMUC4
HMASMTMW	HMASMTPC	HMASMTPS	HMASMUCD	HMASMUPD
HMASMTM2	HMASMTPD	HMASMTP2	HMASMUC1	HM ASMUXC
HMASMTM3	HMASMTPL	HMASMTRM	HMASMUC2	HMASMUXD

HMASMVLU HMASMXRF

Deleted Modules

The following modules are no longer part of the SMP process:

HMASMACC	HM AS MI D2	HMASMPTP
HMASMAPN	HM AS ML PD	HMASMPTS
HMASMAPP	HMASMMRG	HMASMRST
HMASMCNV	HM AS MM TC	HMASMTP1
HMASMIDC	HM AS MP BY	HMASMUCL

Changed Modules

The following modules have been changed:

HMASMARL	HM AS MA SM	HMASMCPY	HMASMION	HM ASMR DS
HMASMAR1	HM AS MC MP	HMASMDRV	HMASMLCD	HMASMREC
HMASMAR2	HMASMCNV	HMASMGTA	HMASMLKD	HMASMREJ
HMASMAR3	HMASMCPI	HMASMIDU	HMASMLKI	HMASMSCN
HMASMASI		HMASMIO	HMASMMSG	HMASMSUB

HMASMSUP HMASMTM1
HMASMTBL HMASMUPD
HMASMTID HMASMUPI
HMASMTL1 HMASMZAP
HMASMTL2

New Data Areas

The following new data areas are described in this publication:

HMASMCRP HMASMUXP

Changed Data Areas

The following data areas have been changed:

HMASMCCA HMASMRDP
HMASMGTP HMASMSCP
HMASMICT HMASMSET
HMASMIOP HMASMSPL
HMASMMGP

Method Of Operation

This section is completely revised to describe the functional flow of the major SMP processes.

Program Organization

This section is completely revised to provide an overview of each of the key SMP functions through text and calling-sequence diagrams, and describes the purpose of each module in that processing area.

Directory

This section is updated to include information about the data areas used and the messages that are issued by each module.

SECTION 1: INTRODUCTION

The System Modification Program (SMP) is a service aid that is used to install IBM or user system modifications (SYSMODs) into an OS/VS1 or OS/VS2 MVS system. The modifications can be made to modules, macro definitions or source modules contained on the operating system libraries, the distribution libraries (DLIBS), or permanent user libraries.

INPUT TO SMP

SMP is executed as a job step through specification of HMASMP on an EXEC job control statement in the input stream.

Input to SMP can be:

- SMP control statements that specify the function to be performed
- SMP modification control statements that identify the type of modification and the elements (module, macro, or source module) to be modified
- SMP, system, and user data sets

SMP PROCESSING

The processing performed by SMP is determined by the SMP control statements that are specified by the user:

- RECEIVE places SYSMODs into the SMP PTF Temporary Store (PTS) data set for subsequent processing by REJECT, APPLY, ACCEPT, and RESTORE
- REJECT removes SYSMODs from the PTS and deletes any temporary libraries loaded during RECEIVE processing
- APPLY places SYSMODs into the target system libraries
- RESTORF removes SYSMODs processed by APPLY from target system libraries
- ACCEPT places SYSMODs into the distribution libraries or permanent user libraries

- UCLIN/UCL statements/ENDUCL adds, deletes or updates information on the SMP data sets
- JCLIN reads in the Stage I output from system generation (or similar job step JCL) to create or update the CDS
- LIST lists information on the SMP data sets
- LOG writes user-specified messages to the SMPLOG data set
- RESETRC resets the return code values previously returned by other functions invoked by SMP control statements

The SMP processing areas that are responsible for processing each SMP control statement are as follows:

SMP Control Statement

SMP Processing Area

RECEIVE	RECEIVE
REJECT	R EJ ECT
APPLY	APPLY/ACCEPT/RESTORE
RESTORE	APPLY/ACCEPT/RESTORE
ACCEPT	APPLY/ACCEPT/RESTORE
UCLIN/UCL/FNDUCL	UCLIN
JCLIN	JCLIN
LIST	LIST
LOG	Driver
RESETRC	Driver

There are additional processing that are also part of SMP and are invoked by the processes listed above:

Additional SMP Processing Area

Invoked By

I/0	All processing areas
Table	Driver
Interface	APPLY/ACCEPT/RESTORE
Parse	RECEIVE
STAE	Driver
DELETE	
Reports	APPLY/ACCEPT/RESTORE Driver
rehores	DITAGE

The sequence in which the SMP control statements are encountered determines the sequence of execution. The format of the control statements and a detailed description of the processing that takes place for each control statement is available in the OS/VS System Modification Program (SMP) System Programmers Guide.

Rather than describe each SMP module as an isolated entity, this publication describes the functional flow of each of the processing areas, with all of the SMP modules used to perform that process described together.

In this way, if you know what control statement is being processed, or what function SMP is performing (such as issuing reports or parsing modification control statements), you can determine the SMP modules that are involved and understand the flow of processing that took place in SMP.

OUTPUTS FROM SMP

Outputs from SMP can be:

- Updated SMP, system, or user data sets
- Messages, reports, or listings produced during processing
- Listings of SMP data sets

Figure 1 is an overview of SMP processing.

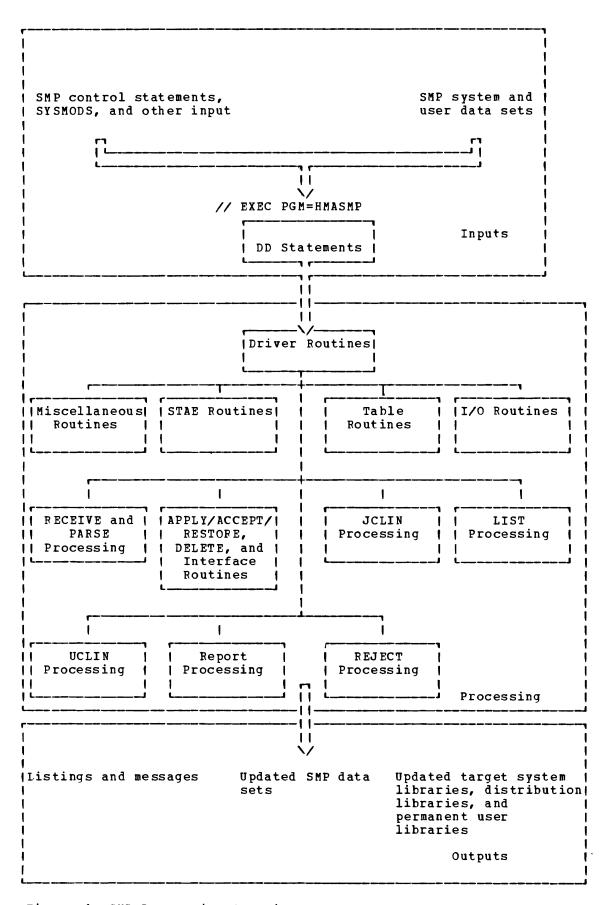


Figure 1. SMP Processing Overview
4 OS/VS System Modification Program (SMP) Logic

STORAGE REQUIREMENTS

Refer to the OS/VS System Modification Program (SMP) Programmer's Guide, GC 28-0673 for SMP storage requirements.

OPERATIONAL CONSIDERATIONS

A number of operating system programs can be invoked by SMP to install SYSMODS:

Assembler Linkage Editor IEBCOPY IEBU PDTE IEHIOSUP-for VS1 only IMASPZAP

These system programs must be available to SMP.

SECTION 2: METHOD OF OPERATION

This section contains method of operation diagrams that present the major areas of SMP processing and show the flow from one area to another. The major areas of processing are:

- Driver routines, Report routines, STAE routines and miscellaneous support functions
- Table routines
- I/O routines
- RECEIVE and Parse processing
- JCLIN Processing
- UCLIN Processing
- APPLY/ACCEPT/RESTORE processing, DELETE processing, and Interface routines
- REJECT processing
- LIST processing

VISUAL TABLE OF CONTENTS

Figure 2 is a visual table of contents that supplies the method of operation diagram number of each processing area.

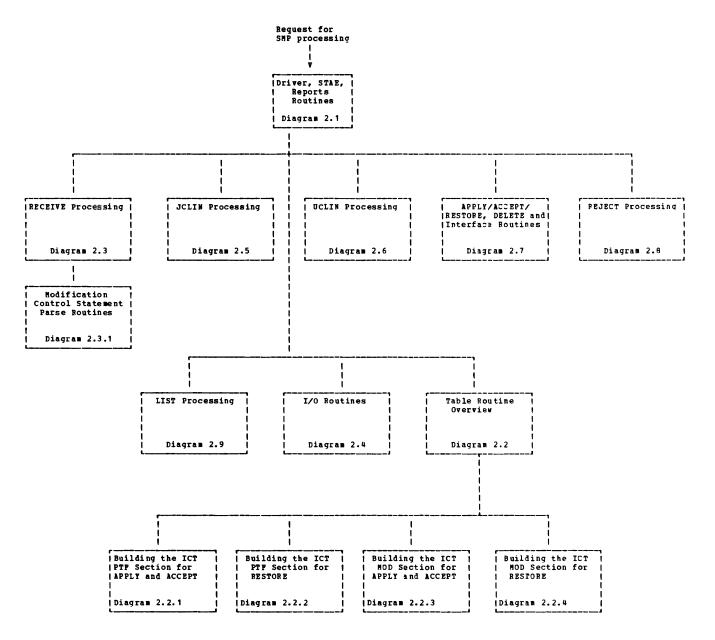


Figure 2. Visual Table of Contents

READING METHOD OF OPERATION DIAGRAMS

Method of operation diagrams describe the functional flow within each of the areas of SMP processing.

Each diagram shows input-processing-output sequences, using the conventions shown in Figure 3:

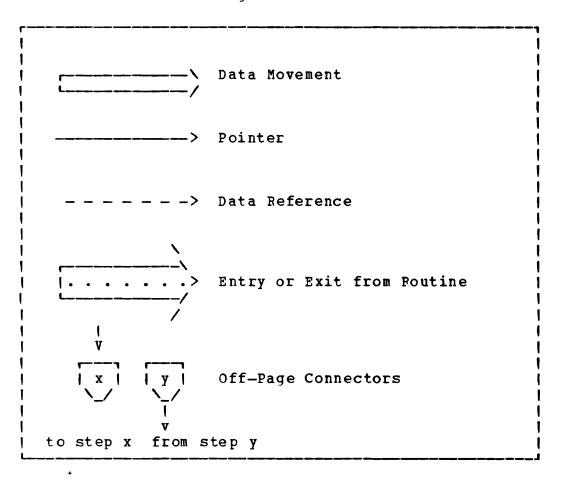


Figure 3. Key To Method of Operation Diagrams For SMP

When one area of processing calls modules that are in other processing areas, these modules are indicated as shown in Figure 4.

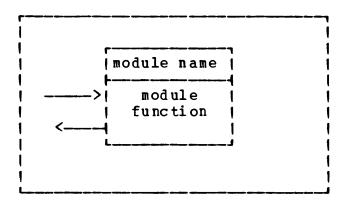


Figure 4. Notation for Flow Between Functions

The extended descriptions in each method of operation diagram list the SMP modules that perform the described functions.

FREQUENTLY CALLED MODULES

For the purpose of clarity and simplicity in describing functional flow, the following SMP modules generally do not appear in the method of operation diagrams because of the frequency with which they are called:

Module Name	Description	Functional Area
HMASMIO	I/O Driver	I/O routine
HMASMMSG	Message Module	Miscellaneous routine
HMASMSCN	Parse/Scan Procedure	Parse routine
HMASMTAI	Add ICT Index Entry	Table routine
HMASMTSB	Common Table Subroutines	Table routine
HMAS MTAD	Create Basic ICT Section Entry	Table routine

- All input and output operations done by SMP are performed by calling HMASMIO, the I/O Driver. For this reason, HMASMIO does not appear in the method of operation diagrams when input/output operations are required.
- All messages are written via a call to HMASMMSG, the Message Module. This module does not appear in method of operation diagrams to show output to the SMPLOG or SMPOUT.

- All parsing of input control cards (that is, from SMPCNTL, SMPPTFIN, or SMPJCLIN) is done by calling HMASMSCN, the Parse/Scan Routine. This module, therefore, does not appear in the method of operation diagrams.
- HMASMTAI, Add ICT Index Entry, does not appear in the Table Routines method of operation diagrams because of the frequency with which it is called to add an index entry to the ICT. HMASMTAD, Create Basic ICT Section Entry, also does not appear because of the frequency with which it is called to create an ICT section entry. HMASMTSB is not shown because it contains tables commonly used by table subroutines and is called frequently.

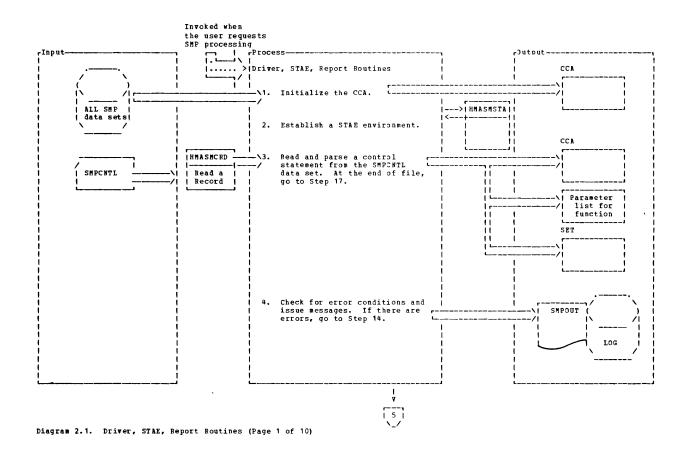
Because the miscellaneous support function modules are called by the other processing areas, they do not appear in a separate method of operation diagram.

RETURN CODE CONVENTIONS

The following return codes are used by SMP:

- RC=0 indicates that processing completed successfully.
 Normal processing continues.
- RC=4 indicates that processing was successful but that a warning condition was detected. Normal processing continues.
- RC=8 indicates that an error was detected during processing that causes processing of the current SYSMOD to terminate.
- RC=12 indicates that an error was detected during processing that causes processing to terminate for the current function after any applicable cleanup processing.
- RC=16 indicates that an error was detected that terminates SMP.

Unless otherwise indicated, return codes described in the method of operation diagrams are 0, 4, 8, 12 or 16, and correspond to the above meanings.



EXTENDED DESCRIPTION	OBJECT MODUL
The Driver is the controlling function for SMP. It interfaces with the other SMP functions to complete processing for all available input statements.	HMASMDRV
 Initialize HMASMCCA area (CCA) a. From data in the CDS SYSTEM entry, obtain the HMASMIOP area based on the PEMAX value. 	I HMASMDSU HMASMDSU HMASMDS1 HMASMSUB
b. From data in the ACDS SYSTEM entry, obtain the HMASMIOP area based on the PEMAX value.	HMASMDS1 HMASMSUB
c. From data in the PTS SYSTEM entry, set system utility names, parameters, SYSPRINT or defaults.	HMASMDS1
d. Issue BLDL for the utility programs required.	HMASMBDL
 e. Use the presence or absence of DD statements to obtain input/output buffer areas. 	HMASMDSU
 Establish a STAE environment with HMASMSER as the STAE error routine. 	HMASMSTA HMASMSER
3. Read a control statement from the SMPCNTL data set and parse it. Construct the parameter list appropriate for the function required. The Select/Exclude table (HMASMSET) is built if required. At the end of file, continue at Step 17.	HMASMCRD HMASMSCN HMASMDRV HMASMGTA HMASMDRV
 Check for error conditions and issue error messages. If any errors occurred, continue at Step 14. 	•
	' 1 1
	1
	!

Diagram 2.1. Driver, STAE, Report Routines (Page 2 of 10)

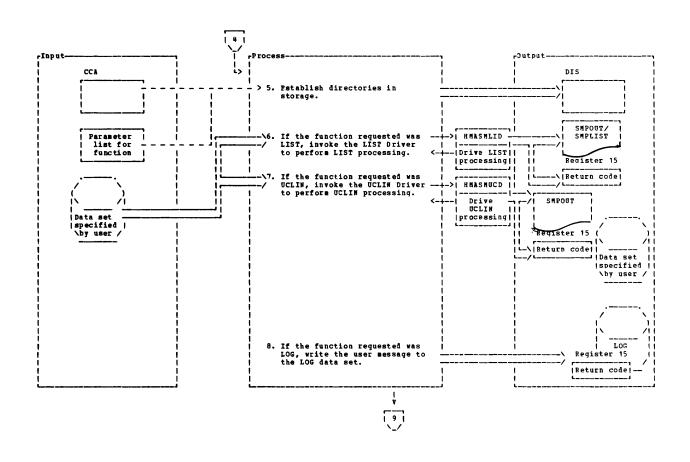


Diagram 2.1. Driver, STAE, Report Routines (Page 3 of 10)

EXTENDED DESCRIPTION	OBJECT MODULE
Based on the function and option requested, free any directories already in storage and not required for this function, and load any required directories into storage. Any subsequent I/O requests to that data set use the in-storage version of the directory.	HMASMDR1 HMASMIO
If the function was a LIST request, invoke HMASMLID, the LIST driver, to do LIST processing as shown in the LIST processing method of operation diagram.	HMASMDRV HMASMLID
If the function was a UCLIN request, invoke HMASMUCD, the UCLIN driver, to do UCLIN processing as shown in the UCLIN function method of operation diagram.	HMASMDRV HMASMUCD
If the function was a LOG request, write the user supplied messages to the LOG data set.	HM A SMDRV

Diagram 2.1. Driver, STAE, Report Routines (Page 4 of 10)

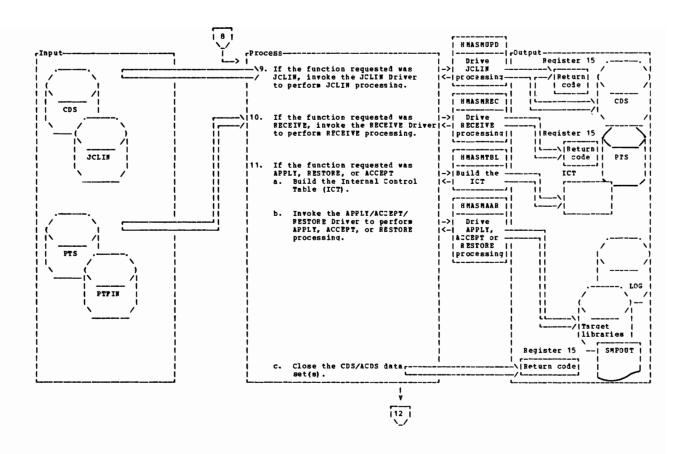


Diagram 2.1. Driver, STAE, Reports Routines (Page 5 of 10)

	EXTENDED DESCRIPTION	OBJECT MODULE
9.	If the function was a JCLIN request, invoke HMASMUPD to do JCLIN processing as defined in the JCLIN Processing method of operation diagram.	HMASMDRV HMASMUPD
10.	If the function was a RECEIVE request, invoke HMASMREC to do RECEIVE processing as defined in the RECEIVE processing method of operation diagram.	HMASMDRV HMASMREC
11.	If the function was an APPLY, RESTORE, or ACCEPT reguest:	HMASMDRV
 	a. Invoke HMASMTBL to build the Internal Control Table (ICT) as defined in the Table method of operation diagram.	HMASMTBL
1	b. Do APPLY, RESTORE, or ACCEPT process- ing by invoking HMASMAAR, as defined in the APPLY/RESTORE/ACCEPT method of operation diagram.	HMASMAAR HMASMAAR
1	c. Close the CDS and/or ACDS data sets to ensure that data is not lost after the data sets are updated.	HMASMDRV
1 1		!
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† † †		
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		i i 1 !
1		1

Diagram 2.1. Driver, STAE, Report Routines (Page 6 of 10)

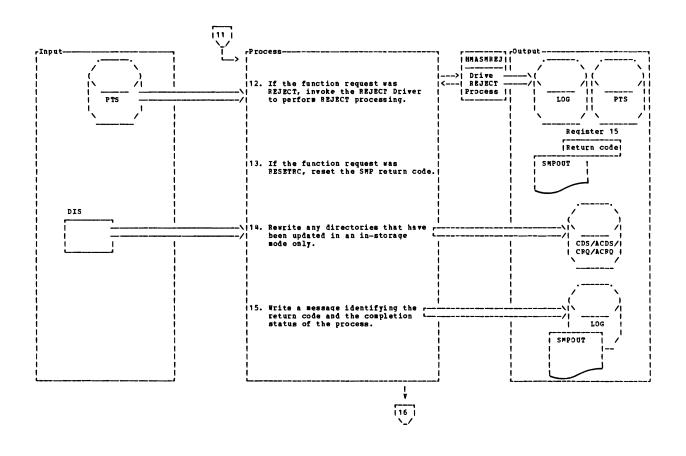


Diagram 2.1. Driver, STAE, Report Routines (Page 7 of 10)

	EXTENDED DESCRIPTION	OBJECT MODULE
12.	If the function was a REJECT request, invoke HMASMREJ to perform REJECT processing as defined in the REJECT processing method of operation diagram.	HMASMDRV HMASMREJ
13.	If the function requested was RESETRC, reset the return code.	HMASMDRV
14.	Rewrite any directories that have been updated in an in-storage only mode.	I HMASMDR2
15.	Issue a message indicating function completion and include the return code.	HMASMDRV
		1 1 1
		1
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		i !
		i ! !
		1 !
		1 1

Diagram 2.1. Driver, STAE, Report Routines (Page 8 of 10)

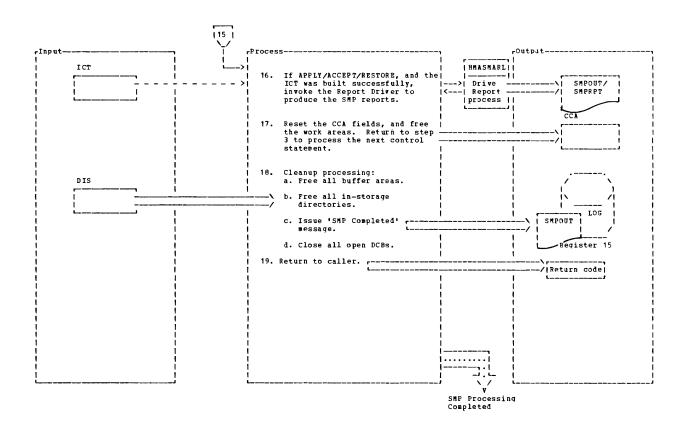


Diagram 2.1. Driver, STAE, Report Routines (Page 9 of 10)

	EXTENDED DESCRIPTION	OBJECT MODULI
16.	If the function was APPLY, RESTORE, or REJECT and the ICT was built successfully, invoke HMASMARL to produce the reports.	HM ASMARL
	a. SYSMODS PROCESSED REPORT b. ELEMENTS PROCESSED REPORT c. REGRESSED SYSMODS REPORT d. DELETED SYSMODS REPORT	HMASMAR1 HMASMAR2 HMASMAR3 HMASMAR4
17.	Reset the CCA fields that are associated with a particular function and free any work areas obtained for the function, including the ICT. Continue at step 3 to process the next SMP control statement.	HMASMDRV
18.	This step gets control when an end-of-file is encountered on SMPCNTL to free all input/output buffer areas, free all directories-in-storage, issue an 'SMP Completed' message, identify the highest return code from all functions requested, and close all open data sets.	 HMASMIO
19.	Return to caller with the SMP return code in Register 15.	HMASMDRV

Diagram 2.1. Driver, STAE, Report Routines (Page 10 of 10)

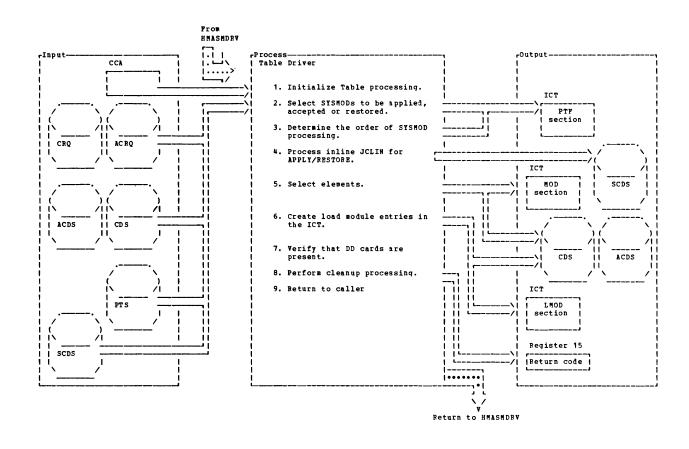


Diagram 2.2. Table Routine Overview (Page 1 of 2)

EXTENDED DESCRIPTION	OBJECT HODULE	EXTENDED DESCRIPTION	OBJECT MODULE
The Internal Control Table (ICT) is used to drive the SHP APPLY, ACCEPT and RESTORE functions. The Table Driver, HHASHTBL, is called by HHASHDRY to build the ICT by calling a series of SHP modules when an APPLY, ACCEPT or RESTORE is being performed. 1. Initialize by performing the following: a. Setup TBLX parameter list for subroutines. b. Open required data sets. c. Obtain the IOPs. d. Initialize the ICT. 2. Select SYSHODs to be applied, accepted or restored, based on the select/exclude list, PTS, CDS and/or ACDS. Perform ICT compress processing. 3. Determine the order of JCLIM processing of the SYSHODs based on the function hierarchy and prerequisite relationships. 4. Process inline JCLIM for APPLY/RESTORE. This involves saving existing entries on the SCLS and modifying the entries based on the JCLIM in the PTS. For RESTORE, the CDS is updated with the saved copies of entries from the SCDS. In both cases, the order of STSHOD processing is determined by the order established in step 3.	HMASMIBL HMASMIBL HMASMIBL HMASMIPD HMASMIBM HMASMIPO HMASMIPO	6. An LMOD entry is created for each load module that must be link slited. The entries are built as follows: a. An entry is created for each new load module based on the elements in the MOD section of the ICT. b. For each LMOD entry built, a list of pointers is built to all MODs that are in the load module. c. The LMOD entry is completed based on the CDS load module entry and compress is performed. 7. Ensure that all DD cards needed to process the elements are present. 8. Cleanup is performed as follows: a. Free the IOP obtained in step 1. b. Free the unused portion of the ICT.	HMASMTL1 HMASMTL2 HMASMTBH HMASMTDD HMASMTCL HMASMTCL HMASMTCL HMASMTCL HMASMTBL
 Select elements based on the functional hierarchy, requisite relationships, VERSION and RHID information. This processing also ensures that regression will not occur by checking the HODID lists for each element. Perform ICT compress processing. 	HMASHTHD HMASHTRH HMASHTBH HMASHTBH HMASHHPD		

Diagram 2.2. Table Routine Overview (Page 2 of 2)

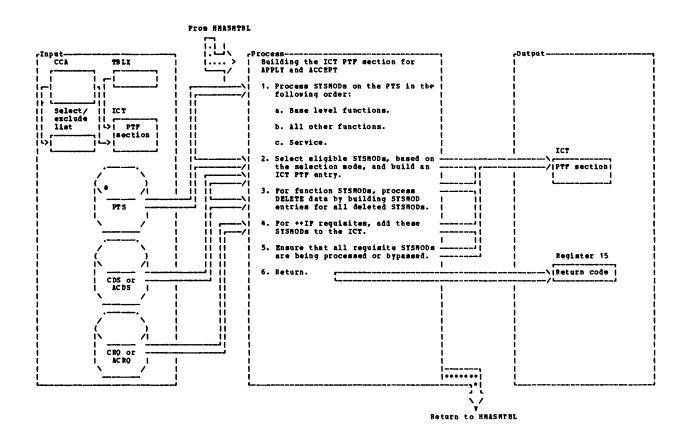


Diagram 2.2.1. Building the ICT PTF Section for APPLY and ACCEPT (Page 1 of 2)

EXTENDED DESCRIPTION	OBJECT MODULE
HMASMTBL, the Table Driver, calls HMASMTPD, the ICT PTF Section Build Driver, to direct the construction of the ICT PTF entries for APPLY and ACCEPT based upon the select/exclude list. This is an overview of the process that builds the ICT PTF section.	
1. HMASMTPD calls HMASMTPA to select SYSMODs. In order to select the correct ++IF modification control statement based on the functional environment, SYSMODs are selected in the following order:	HMASMTPD HMASMTPA HMASMTPL HMASMTSB
a. Base level functions.b. All other functions.c. Service.	
 For each SYSMOD that is eligible, build an ICT PTF entry, and save the ++IF data from the PTS. 	HMASMTPC HMASMTEC HMASMTAD HMASMMPD HMASMTAI
3. For each SYSMOD in a DELETE list, build a SYSMOD entry marked for deletion. For each SYSMOD in the ICT or on the ACDS or CDS that has an FMID marked for deletion, ensure that there is an entry in the ICT marked for deletion.	
4. Based on the current functional environment, build SYSMOD entries for SYSMODs specified as REQs on the ++IF modification control statements in the CRQ or ACRQ, or by SYSMODs that are currently being processed.	HMASMTAI HMASMTAD
5. For each SYSMOD in the ICT, ensure that all of the REQs, PREs and ++IF REQs are in the ICT to be processed concurrently or on the CDS/ACDS. If this is not true, the SYSMOD is marked NOGO.	HMASMTCR HMASMTR1
6. Return to caller with the SMP return code.	HMASMTPD

Diagram 2.2.1. Building the ICT PTF Section for APPLY and ACCEPT (Page 2 of 2)

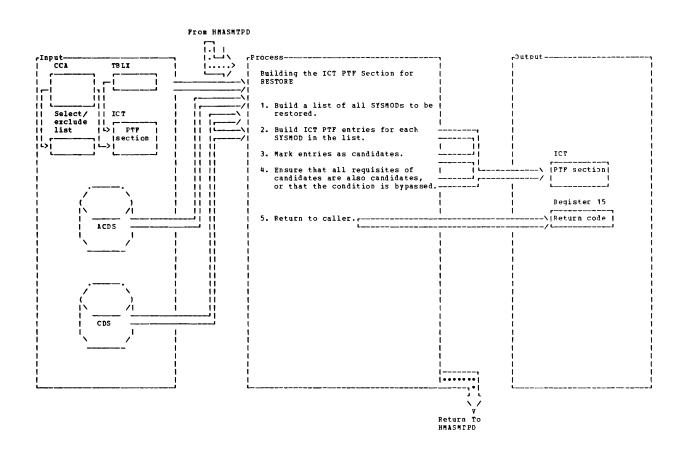


Diagram 2.2.2. Building the ICT PTF Section for RESTORE (Page 1 of 2)

EXTENDED DESCRIPTION	OBJECT MODULE
HMASMTPR, the ICT SYSMOD Selection for RESTORE module, is called for RESTORE processing. HMASMTPR creates ICT PTF entries for the list of SYSMODs specified via SELECT or GROUP in the RESTORE request. This is an overview of that process.	
1. By comparing the SYSMODs on the CDS and the ACDS, applied but not accepted SYSMODs are found. An ICT PTF entry is built for each.	HM ASMTPR HM ASMTAD
2. Complete the ICT PTF entry with data from the CDS, including the PRE, REQ, and IFREQ information.	HMASMTEC
3. Each entry that appears in the select list is marked as a candidate for RESTORE. If a SYSMOD in the select list is not a candidate, issue an error message.	HMASMTPR HMASMTSB
If GROUP was specified, mark REQ and IFREQ SYSMODs as candidates. This process is repeated until all candidates are added.	
4. For each candidate SYSMOD, ensure that all of its requisite SYSMODs are also candidates. If not, mark the SYSMOD as NOGO.	HM ASMTPR
5. Return to HMASMTPD with the SMP return code.	HMASMTPR
<u> </u>	

Diagram 2.2.2. Building the ICT PTF Section for RESTORE (Page 2 of 2)

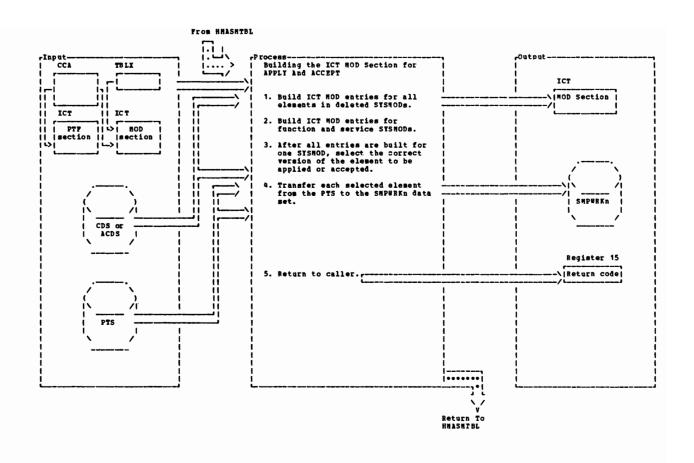


Diagram 2.2.3. Building the ICT MOD Section for APPLY and ACCEPT (Page 1 of 2)

EXTENDED DESCRIPTION	OBJECT MODULE
HMASMIND, the ICT MOD Section Build Driver, is called to create the ICT MOD section entries for APPLY and ACCEPT processing. This is an overview of that process.	
1. A MOD entry is built for each element in SYSMODs that are being deleted. Unless some other SYSMOD replaces the element, it will be deleted from the system by subsequent processing.	HMASMTMD
2. For each function SYSMOD, build an element entry for each of its elements. The ICT PTF section is searched to ensure that SYSMODs that are prerequisites are processed in the PREREQ order specified. This is done as follows:	
a. Parse the modification control statements on the PTS data set.	HMASMMPD
b. For each element modification control statement (++MAC, ++MOD, etc.), build a	HMASMTAD
MOD entry.	HMASMTM1
c. Complete the MOD entry with parsed infor-	•
mation and the CDS or ACDS element entry.	
d. Chain the PTF section entry for the	HMASMTM4
SYSMOD to all MOD section entries built.	
	HMASMTAI
Service SYSMODs are processed the same as	HMASMTMD
function SYSMODs.	HMASMMPD
3. After all MOD section entries are built for one SYSMOD, the correct version is selected, based on the function hierarchy prerequisite relationships, amd FMID, RMID and UMID data on the CDS or ACDS. Multiple versions of the same MOD section entry may occur when source and macro updates are performed.	HMASMTPS
4. For selected elements, text or object code supplied inline is transferred to an SMPWRK data set.	HMASMTMW
! 5. Return to HMASMTBL with the SMP return code.	HMASMTMD

Diagram 2.2.3. Building the ICT MOD Section for APPLY and ACCEPT (Page 2 of 2)

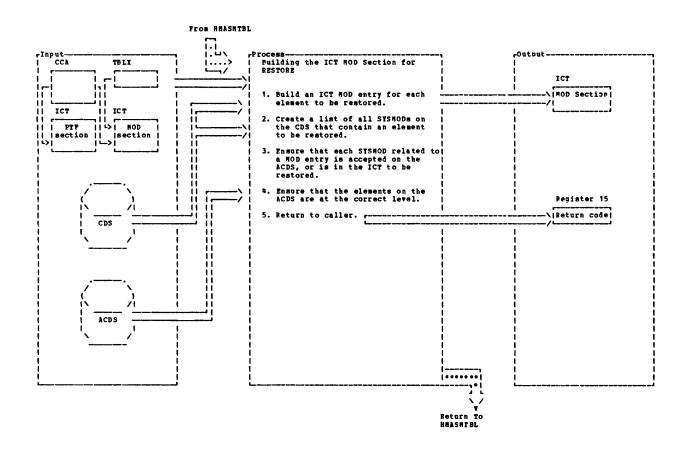


Diagram 2.2.4. Building the ICT MOD Section for RESTORE (Page 1 of 2)

EXTENDED DESCRIPTION	OBJECT MODULE
HMASMTRM, the ICT Module Selection for RESTORE module, is called to select modules and build the ICT MOD section entries for RESTORE processing. This is an overview of that process. 1. Build an element ICT entry for each	I I I I I HMASMTRM I HMASMTM1
element in each SYSMOD to be restored based on the element entries on the CDS.	HMASMTM2 HMASMTM3 HMASMTM4 HMASMTAI
 Create a GTA file that lists all SYSMODS on the CDS that contain the selected elements. 	HMASMXRF
3. Process each element in the GTA file to verify that all related SYSMODs are in the proper state. The SYSMOD is in the proper state if one of the following is true:	HMASMTPR HMASMTAI
a. The SYSMOD is accepted and not in error on the ACDS.b. The SYSMOD is a candidate for RESTORE in the ICT.	
4. Ensure that each element on the ACDS can be used to replace the element being restored. This check fails if any of the following is true:	•
 a. The RMID SYSMOD is in error. b. One of the UMID SYSMODS is in error. c. Any of the SYSMODS in step a or step b is accepted but not applied unless BYPASS(ID) was specified. 	 HMASMTRM
5. Return to caller with the SMP return code.	
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Diagram 2.2.4. Building the ICT MOD Section for RESTORE (Page 2 of 2)

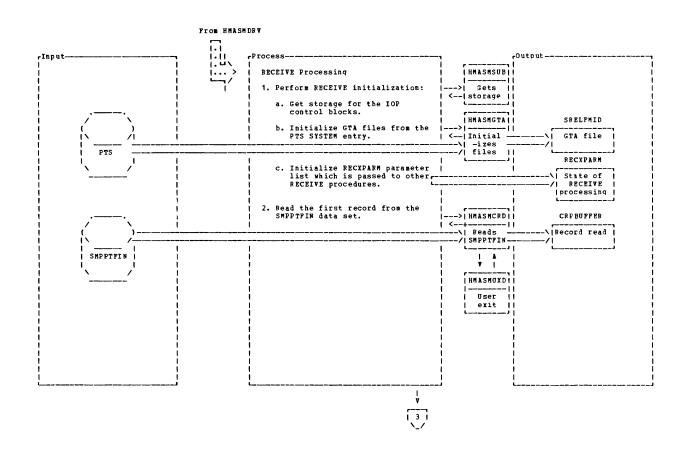


Diagram 2.3. RECEIVE Processing (Page 1 of 8)

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EXTENDED DESCRIPTION	OBJECT HODULE	EXTENDED DESCRIPTION	OBJECT MODULE
RECEIVE processing is initiated by specifying the RECEIVE control statement. It moves STSHODS from the SMPPTFIM data set to the PTS data set. RECEIVE processing is controlled by the SELECT or ENCLUDE list from the RECEIVE control statement and by the PTS data set SYSTEM entry. Successfully received SYSHODs are represented on the PTS by a SYSHOD entry and an HCS entry.		2. The first record of each statement on SHPPTFIN is read by calling HMASMCRD. HMASMCRD interfaces with HMASMUXD to perform user exit processing.	HHASMCRD RMASMUXD HMASMUXC
1. HHASHREC, the RECEIVE Driver, receives control from HHASHDRV, the SMP Driver. It calls modules to:	HHASHREC I		
a. Get storage for IOP control blocks. b. Initialize four GTA files using the PTS SYSTEM entry.	HMASMSUB HMASMSTA		
- GTA Summary - Used to save RECEIVE processing messages for the RECEIVE SUMMARY REPORT generated by HMASMRCL.			
- GTA SREL/FMID - Used to keep track of the SREL/FMID pair of ++VER modification control statements.			
- PTS SYSTEM Entry - Contains the FMIDs and SRELs which may be received on the PTS. It is initialized by reading the the PTS SYSTEM entry and moving SREL and FMID subentries from the PTS SYSTEM entry to the GTA file.			
- RELFILE - Used to keep track of the elements supplied on a relfile tape so they may be loaded to the TLIB data sets after all the modification control statements have been processed.	i i		
c. HHASHREC initializes the RECY parameter list (RECYPARH), which is passed to all other RECEIVE routines. This parameter list contains data that defines the state of PECEIVE processing.	i i		

Diagram 2.3. RECEIVE Processing (Page 2 of 8)

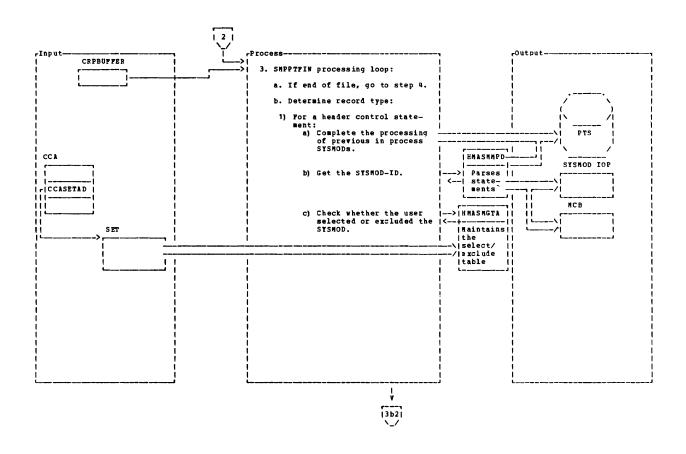


Diagram 2.3. RECEIVE Processing (Page 3 of 8)

EXTENDED DESCRIPTION	OBJECT MODULE	EXTENDED DESCRIPTION	OBJECT HODGLE
3. Read the modification control statements on SMPPTFIN.		Also check to see if the SYSMOD is already received on the PTS.	
 a. If end of file is reached, go to step 4. b. Call HHASHSCN to look for a header (**PTF, ***FUNCTION, ***APAR, ***USERMOD) 			
modification control statement.			
 When a header modification control statement is encountered, processing is required to complete the previous SYSHOD. 	HMASHREC 		
a) If the previous SYSMOD had no errors and met the SREL/FHID selection criteria, the PTS MCS entry containing the modification control statements must be STOWed to the PTS, and the PTS SYSMOD entry describing the SYSMOD must be written to the PTS. This is accomplished by calling HMASHRCC, the SYSMOD Completion Procedure.			
If the previous SYSMOD had errors, or did not meet the selection criteria, HHASMECP, the Plush SYSMOD procedure, is called to scratch any previously STOWED PTS, MCS and SYSMOD entries. Data in the RELFILE GTA file pertaining to the failing SYSMOD must be purged.			
b) The header statement is parsed by HMASHMPD and written to the PTS MCS entry.			
c) HHASHGTA is called to determine whether the SYSHOD was selected or excluded by the user for process- ing. If excluded or not selected, set indicator to flush this SYSHOD.			

Diagram 2.3. RECEIVE Processing (Page 4 of 8)

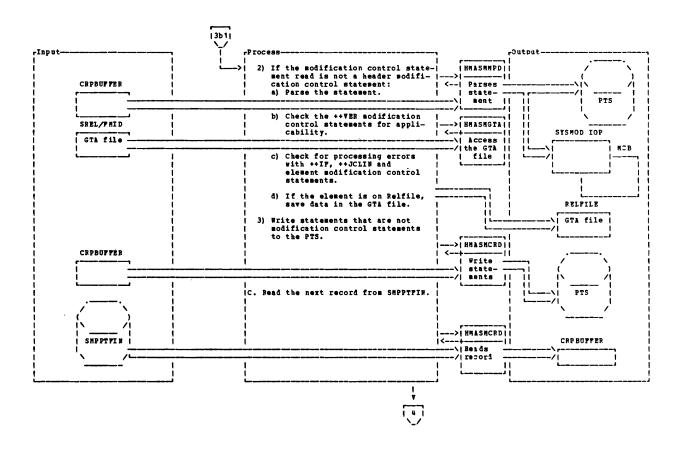


Diagram 2.3. RECEIVE Processing (Page 5 of 8)

	EXTENDED DESCRIPTION	OBJECT MODUL
2)	Modification control statements that are not header statements modification control are processed:	HMASMREC
	a) They are parsed by HMASMMPD and writted to the PTS MCS entry.	n HMASMMPD
	b) Access the GTA SREL/FMID file for ++VE modification control statement checking Determine whether the ++VER modification control statements SREL and FMID operands correspond to PTS SYSTEM entry SREL/FMID data.	g. on
	c) Check for SYSMOD construction errors of the ++IF, ++JCLIN and element modifica- tion control statements, such as dupli- cate ++JCLIN modification control stat- ments or no applicable ++VER modifica- tion control statements.	- - e-
	d) For elements supplied in an unloaded data set in a subsequent file on SMPPTFIN, the relative file containing these elements is maintained for subsequent processing in GTA RELFILE file.	
3)	Non-SMP control statements are written directly to the PTS MCS entry by calling HMASMCRD.	HMASMCRD HMASMREC
SM	all HMASMCRD to read the next statement on IPPTFIN and go to step 3a to check for end file.	HMASMCRD

Diagram 2.3. RECEIVE Processing (Page 6 of 8)

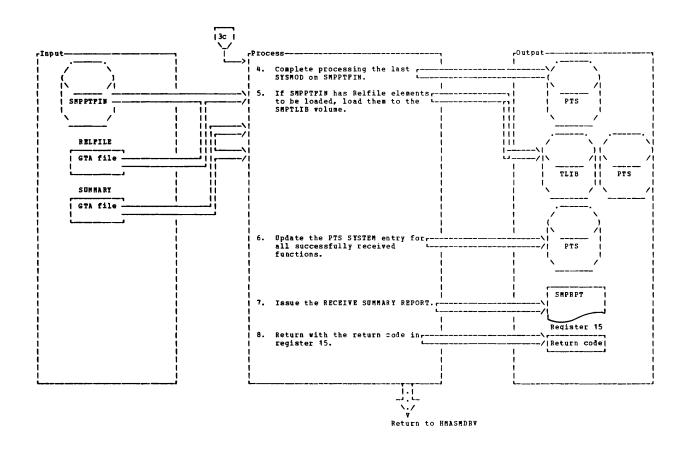


Diagram 2.3. RECEIVE Processing (Page 7 of 8)

EXTENDED DESCRIPTION	OBJECT MODULE
4. Complete processing the last SYSMOD read on SMPPTFIN. If SYSMOD processing completed successfully, call HMASMRCC to STOW the PTS MCS entry and write the PTS SYSMOD entry. If processing failed because of errors, the PTS MCS and SYSMOD entries for the failing SYSMOD are deleted by HMASMRCF. Any data put in the GTA RELFILE file for the failing SYSMOD is removed.	HMASMRCC HMASMRCF
5. After all SYSMODs from SMPPTFIN have been processed, the elements supplied in unloaded data sets on SMPPTFIN are loaded to the SMPTLIB volume by HMASMRCD, the Load Relfile Processor.	HMASMRCD
6. Use the GTA SUMMARY file to find function SYSMODs that were successfully received. For each one, update the PTS SYSTEM entry to include the function as an FMID.	HMASMREC
7. Call HMASMRCL to produce the RECEIVE SUMMARY REPORT, summarizing the SYSMODS processed by RECEIVE.	HMASMRCL
8. Return to caller with the SMP return code.	HMASMREC

Diagram 2.3. RECEIVE Processing (Page 8 of 8)

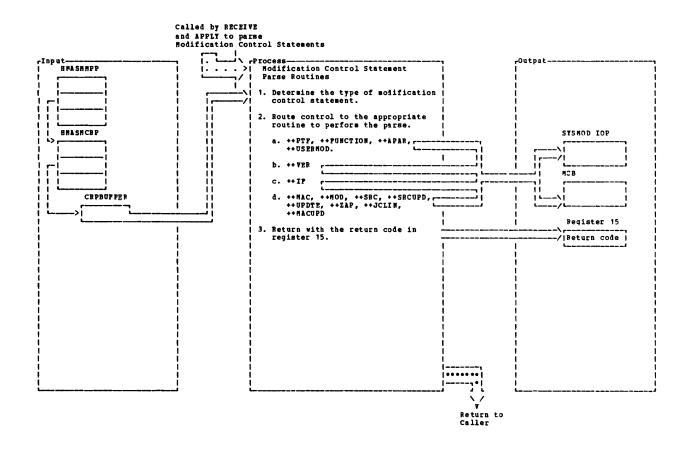


Diagram 2.3.1. Modification Control Statement Parse Routines (Page 1 of 2)

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EXTENDED DESCRIPTION	OBJECT MODULE	EXTENDED DESCRIPTION	OBJECT MODULE
The Modification Control Statement (MCS) Parse Routines are called by the RECEIVE and APPLY functions to check the modification control statements for syntax errors, to fill in the SYSMOD IOP (if required), and to separate the MCS keywords and operands into the MCB.		3. Return to caller with the SMP return code.	HMASMMPD
 The MCS Parse Driver, HMASMMPD, calls HMASMSCW, the Parse/Scan Routine, to determine the type of modification control statement. 	HMASMMPD HMASMSCN		! ! !
Based on the type of modification control statement, HMASMMPD calls the appropriate Parse routine:	HHASMMPD HHASMMPH HHASMMPV HMASMMPI		
- HMASMMPH: ++PTF, ++FUNCTION, ++APAR, ++USBRHOD	HMASMMPE 		
- HMASMMPV: ++VER	! !		!
- HMASMMPI: ++IF	; ;		-
- HMASMMPE: ++MOD, ++MAC, ++SRC, ++ZAP, ++UPDTE, ++SRCUPD, ++JCLIN, ++MACUPD			
The routine called fills in the Modification Control Buffer (MCB) with the keywords and operands of the modification control statements in the CRP Buffer. Statements are also checked for syntax errors.			!
If passed an IOP by the RECEIVE function, the routine fills in the IOP for the SYSMOD. The IOP represents the SYSMOD that gets put into the PTS data set during RECEIVE.			
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Diagram 2.3.1. Modification Control Statement Parse Routines (Page 2 of 2)

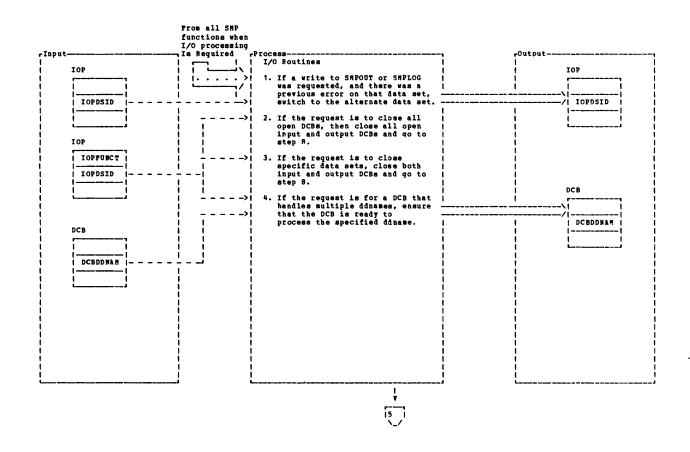


Diagram 2.4. I/O Routines (Page 1 of 4)

EXTENDED DESCRIPTION	OBJECT MODULE
The I/O Routines handle all input and output operations. The I/O Routines receive one parameter, the HMASMIOP, that defines the data set to be accessed and the processing to be performed on that data set or data set member. The I/O Routines also handle acessing in-storage directories and allocation and deletion of loaded Relfiles.	
1. If the function was a write to SMPLOG or SMPOUT, and there was a previous error to that data set, switch the destination of the current output to the alternate data set. This ensures that no output will be lost due to I/O errors on one of the SMP output data sets.	HMASMIO
 If the function was to close all open DCBs, close both the input and output DCBs for data sets defined to SMP. Continue at step 8. 	! ! !
3. If the request was to close a specific data set, close the input and output DCBs for that data set. If the data set was one of those that could have been updated in an in-storage only mode, and it has been updated, then close the output directory DCB for that data set. Continue at step 8.	! ! ! !
4. If the request was for a data set that could be used for multiple DD statements, prepare the DCB for the ddname specified by the user. This is done by closing the DCB for the DD statement for which it is currently open, and setting the new ddname in the DCB.	

Diagram 2.4. I/O Routines (Page 2 of 4)

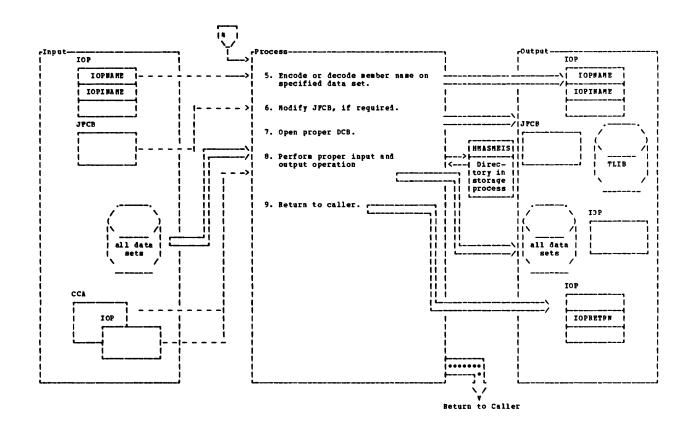


Diagram 2.4. I/O Routines (Page 3 of 4)

	EXTENDED DESCRIPTION	OBJECT HODULE	EXTENDED DESCRIPTION	OBJECT MODULI
5.	If the function to be performed involves a member of a PDS, the member name must be encoded for input operations or decoded for output operations.	HMASHION	d. All in-storage directories are main- tained as chained pages of data using HMASHGTA.	HMASMEIS HMASMETA
6.	Hodify the JFCB if required by the particular function. The modified JFCB reflects the following:	HMASMIO	9. Return to caller with the SMP return code in the HMASHIOP.	HMASMIO -
	a. Changing PDS information to reflect a member of a PDS. Example: DSM=CDS to DSM=CDS (ASH1). b. Changing member of PDS back to show only the PDS. Example: DSM=CDS (ASH1) to DSM=CDS. c. Preparing to access relfiles of SHPPTFIM. d. Preparing to access or allocate a loaded relfile.		·	
7.	If the proper DCB was not opened, or if a specified open request was made, open the DCB. If open fails, issue an error message.	I HMASMIO I I HMASMMSG I		
8.	Based on the function and the data set defined in the HMASHIOP, perform the requested I/O operation.		 	
	 a. All buffering is done by HMASMIO using the input and output buffers pointed to in HMASMCCA. 			
	b. For output operations to a member of a PDS, the directory length as well as the extended length (for SMP data sets only) are calculated by BHASHIO1.	HMASHIO1		
	c. Access to directory data is dependent on whether the data set directory is in-storage.	HMASMIO		į
	 If in-storage, HMASMEIS processes the directories. If not in storage, either STOW/BLDL 	HMASMEIS HMASMEDS	i 	
	operations are done or the data set directory is read sequentially, for read operations, by HMASHRDS.			

Diagram 2.4. I/O Routines (Page 4 of 4)

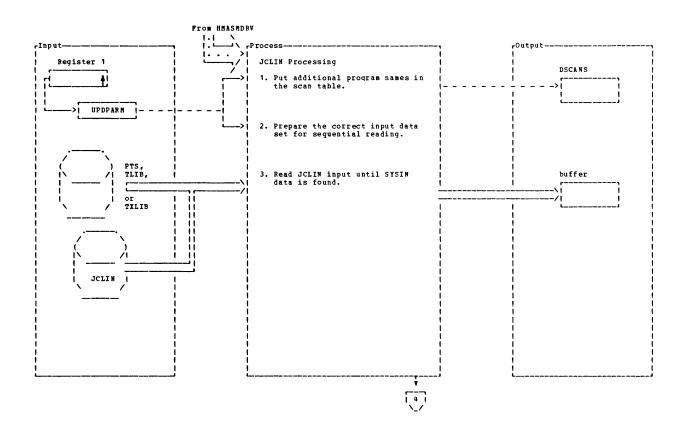


Diagram 2.5. JCLIN Processing (Page 1 of 8)

EXTENDED DESCRIPTION	OBJECT MODULE
JCLIN processing is initiated by specifying the JCLIN control statement or the ++JCLIN modification control statement. The JCLIN Routine examines the input JCL, including all the assembly, copy, and link edit steps. From the information in the JCL and SYSIN data for each step, it either creates new CDS entries, or modifies old CDS entries. These entries are used for subsequent application of SYSMODs. HMASMUPD, the JCLIN Driver, receives control to read the JCL cards from JCLIN, determine the type of step, and call the appropriate JCLIN module to process the SYSIN data.	
 Modify the DSCAN macros used to scan the JCLIN input to include those processor names specified on either the JCLIN statement or the ++JCLIN modification control statement. 	HMASMUPD
2. Determine the correct input data set and prepare it for sequential read. Input may come from SMPJCLIN (OPEN required), the PTS (no processing required because it was already done by caller), TLIB (allocate, OPEN and POINT required) or TXLIB (OPEN and POINT required).	
3. Read from the input data set and save the JCL statements in a GETMAINED buffer. Statements are saved for each job step as that job step is read and until the next job step is found or SYSIN data is found.	HMASMSCN

Diagram 2.5. JCLIN Processing (Page 2 of 8)

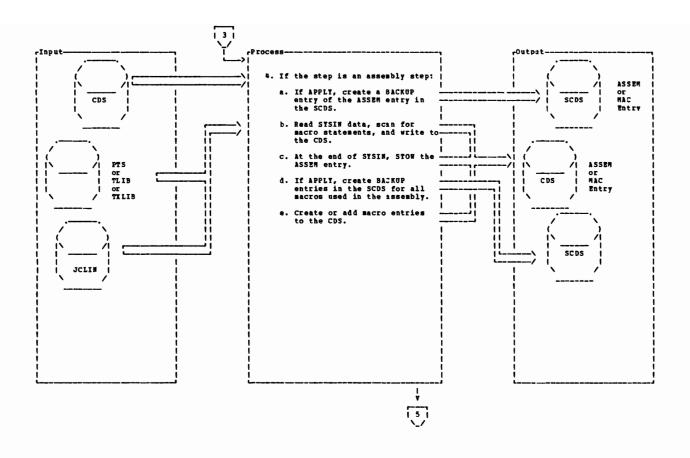


Diagram 2.5. JCLIN Processing (Page 3 of 8)

EXTENDED DESCRIPTION	OBJECT MODULE
4. If the step is an assembly step, do the following: a. If JCLIN requested APPLY, and if a copy of the ASSEM entry exists on the CDS, save it on the SCDS.	HMASMASM HMASMBUE
b. Read all SYSIN data. For each card, scan to find macro invocations (a macro is any operation code greater than 5 characters long and less than 8). Save the macro names.	HMASMASM HMASMSCN
c. At the end of SYSIN data, STOW the ASSEM entry on the CDS.	HMASMIO
d. If JCIIN is requested during APPLY, create BACKUP entries on the SCDS for any macro found in the assembly input that already exists on the CDS.	HMASMBUE
e. Create or modify macro entries on the CDS for each macro found in the assembly input.	HMASMASM
:	

Diagram 2.5. JCLIN Processing (Page 4 of 8)

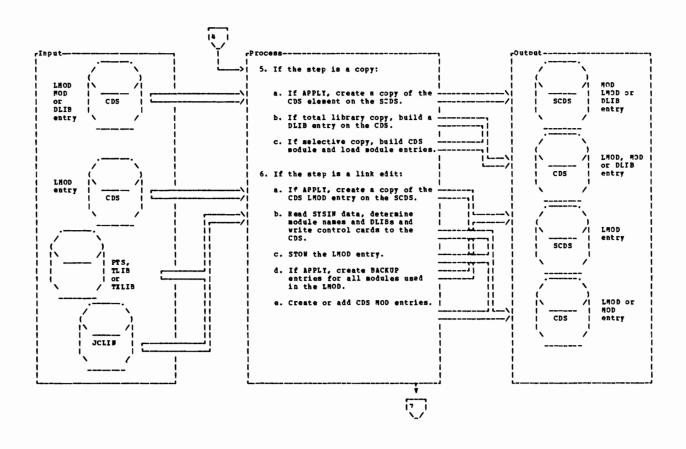


Diagram 2.5. JCLIN Processing (Page 5 of 8)

	EXTENDED DESCRIPTION	OBJECT MODULI
- - -	If the step is a copy step, for each copy statement do the following:	HMASMUPD
	a. If JCLIN input is found during the APPLY process, and a copy of the DLIB entry or module or LMOD entry exits on the CDS, create a BACKUP entry on the SCDS.	
	b. Read all SYSIN data. Scan each card to build a DLIB entry on the CDS.	HMASMCPY HMASMSCN
	c. If a selective copy is required, create modify existing MOD and LMOD entries on the CDS.	or
6.	If the step is a link edit, do the followin	g: HMASMUPD
	a. If JCLIN input is found during the APPLY process, and an LMOD entry exists on the CDS, create a BACKUP entry on the SCDS.	
	b. Read the SYSIN data and determine the modules and DLIB names from the INCLUDE cards and save them. Write all other lin edit control cards (except NAME) to the CDS.	HMASMLKD HMASMSCN
	c. At the end of SYSIN, STOW the LMOD entry on the CDS.	
	d. If JCLIN input is found during the APPLY process, and MOD entries exist on the CD create BACKUP entries on the SCDS for ea MOD entry.	S, I
	e. Create or modify existing MOD entries fo each module link edited with this LMOD.	r HMASMLKD

Diagram 2.5. JCLIN Processing (Page 6 of 8)

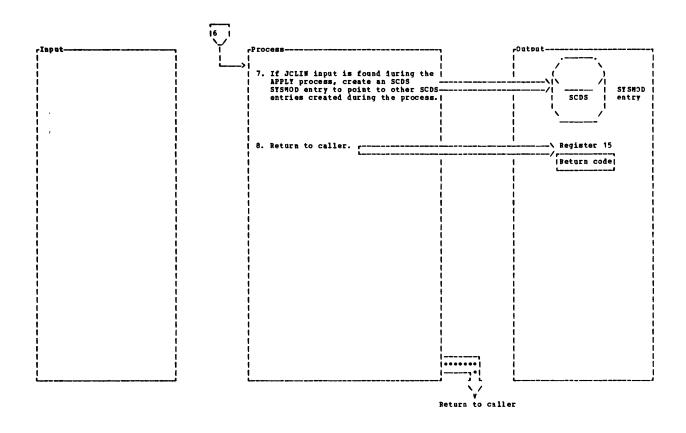


Diagram 2.5. JCLIN Processing (Page 7 of 8)

EXTENDED DESCRIPTION	OBJECT MODULE	
7. At the end of JCLIN input (if this was JCLIN during APPLY) create a SYSMOD entry on the SCDS for the SYSMOD from which the JCLIN came. The SYSMOD entry points to all other SCDS entries created during the process.	HMASMBUE	
8. Return with the SMP return code in register 15.	HMASMUPD	

Diagram 2.5. JCLIN Processing (Page 8 of 8)

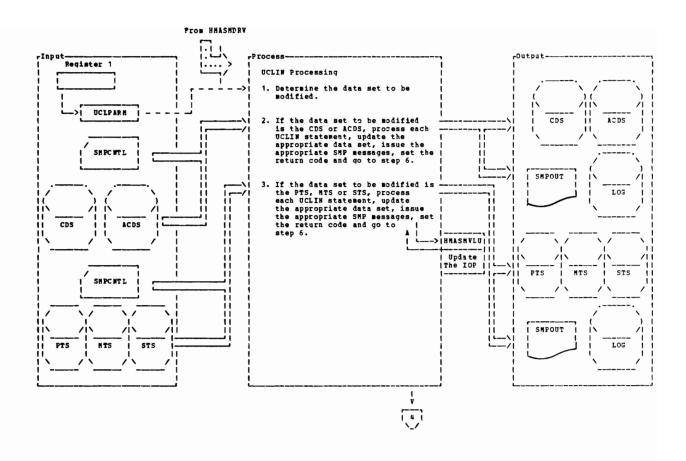


Diagram 2.6. UCLIN Processing (Page 1 of 4)

EXTENDED DESCRIPTION	OBJECT NODULE	EXTENDED DESCRIPTION	OBJECT MODULE
UCLIW processing allows the user to add, delete, and change the ACDS, ACRO, CDS, CRO, MTS, PTS, SCDS and STS data sets. UCLIW processing is initiated by specifying the UCLIW control statement.	 	NOTE: When a SYSMOD is deleted from the PTS, both the SISMOD and MCS entries are deleted. If the SISMOD is a function, the PTS SISTEM entry may be updated.	
1. The UCLIN driver, HHASHUCD, receives control from the SMP driver, HHASHDRV, with a para- meter identifying the data set to be modified.	HM ASHUCD		
2. If the data set to be modified is the CDS or ACDS, the UCLIW CDS/ACDS Processor, HMASHUC1, is called. HMASHUC1 reads and processes each UCLIW statement in the SHPCWT1 data set until an EWDUCL statement is encountered. Processing consists of accessing the appropriate entry in the CDS or ACDS, modifying it, and replacing or deleting it on the CDS or ACDS. Hessages are issued to indicate whether the processing succeeded or failed, the return code is set in register 15, and processing continues at step 6.	HMASHUC1 HMASHSCW		
3. If the data set to be modified is the PTS, HTS, or STS, the UCLIW PTS/STS/HTS Processor, HHASHUC2, is called. HHASHUC2 reads and processes each UCLIW statement in the SHPCWTL data set until an EMDUCL statement is encountered. Processing consists of accessing the appropriate entry in the PTS, HTS or STS, modifying it, and replacing or deleting it on the PTS, HTS or STS. Hessages are issued to indicate whether the processing succeeded or failed, the return code is set in register 15 and processing continues at step 6.	HMASHUC2 HMASHSCW HMASHVLU		

Diagram 2.6. UCLIN Processing (Page 2 of 4)

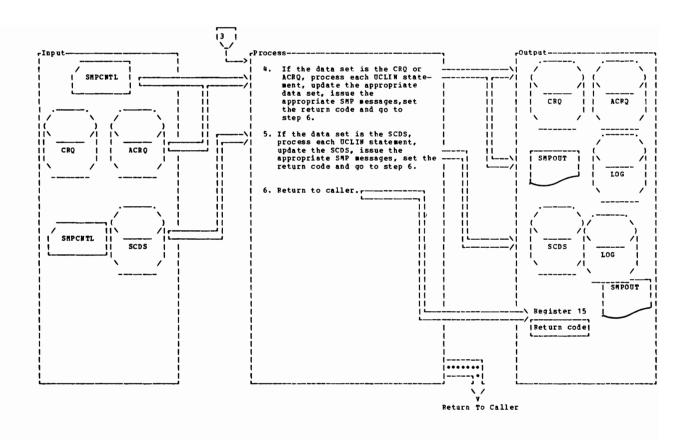


Diagram 2.6. UCLIN Processing (Page 3 of 4)

EXTENDED DESCRIPTION	OBJECT MODULE
4. If the data set is the CRQ or ACRQ, the UCLIN CRQ/ACRQ Processor, HMASMUC3, is called. HMASMUC3 reads and processes each UCLIN statement in the SMPCNTL data set until an ENDUCL statement is encountered. Processing consists of accessing the appropriate entry in the CRQ or ACRQ, modifying it, and replacing or deleting it on the CRQ or ACRQ. Messages are issued to indicate whether the processing succeeded or failed, the return code is set in register 15, and processing continue at step 6. Note: When a SYSMOD is modified, all associated FMID entries are also modified.	HMASMUC3 HMASMSCN
5. If the SCDS data set is requested, the UCLI SCDS Processor, HMASMUC4, is called. HMASMUC4 reads and processes each UCLIN statement in the SMPCNTL data set until an ENDUCL statement is encountered. Processing consists of accessing the appropriate entry in the SCDS, modifying it, and replacing or deleting it on the SCDS. Messages are issued to indicate whether processing succeeded or failed, the return code is set in register 15, and processing continues at step 6.	HMASMUC4 HMASMSCN
Note: When a SYSMOD is deleted from the SCDS, all the associated entries are also deleted. 6. Return with the SMP return code in register 15.	HMASMUCD

Diagram 2.6. UCLIN Processing (Page 4 of 4)

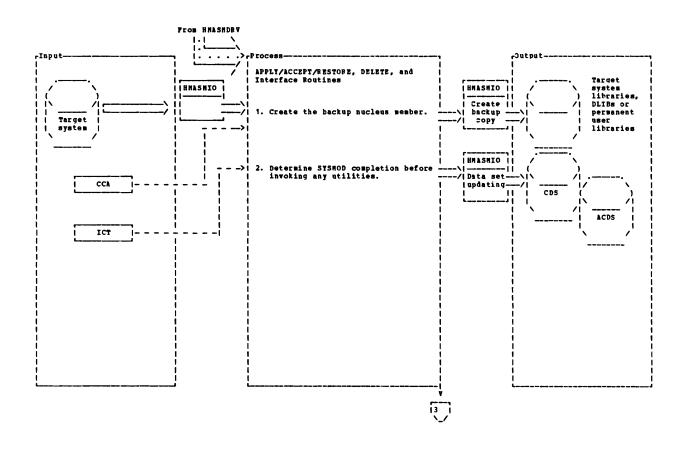


Diagram 2.7. APPLY/ACCEPT/RESTORE, DELETE, and Interface Routines (Page 1 of 8)

APPLY processing updates the target system libraries and CDS entries for SYSNOPS being processed. ACCEPT processing updates the distribution libraries or personent user libraries and the ACDS entries for the SYSNODS being processed. RESTORE processing removes SYSNODS processed by APPLY from the target system libraries. Processing is initiated by specifying the APPLY ACCEPT or RESTORE Control statement. Delete processing occurs when the DELTE texpund is specified on an SHP modification control statement. 1. HHASHARP, the APPLY/ACCEPT/RESTORE Driver, is called from HHASHODY after the ICT has been successfully constructed for the APPLY ACCEPT and RESTORE functions. These functions process load module deletions, compress data sets, invoke the system utilities, and update the SHP data mets. 2. HHASHCPL, the Completion Determination Procedure, is called to create a backup copy with the number indicates in the CCA. 3. HHASHCPL, the Completion Determination Procedure, is called to create a backup copy with the number indicates in the CCA. 3. HHASHCPL, the Completion Determination Procedure, is called to create a backup copy with the number indicates that hashous and heads EXTENDED DESCRIPTION	OBJECT MODULE	EXTENDED DESCRIPTION	OBJECT MODULE	
HMASHIDU	libraries and CDS entries for SYSMODS being processed. ACCEPT processing updates the distribution libraries or permanent user libraries and the ACDS entries for the SYSMODS being processed. RESTORE processing removes SYSMODS processed by APPLY from the target system libraries. Processing is initiated by specifying the APPLY, ACCEPT or RESTORE control statements. Delete processing occurs when the DELETE keyword is specified on an SMP modification control statement. 1. HHASHAAR, the APPLY/ACCEPT/RESTORE Driver, is called from HHASHDRV after the ICT has been successfully constructed for the APPLY, ACCEPT and RESTORE functions. These functions process load module deletions, compress data sets, invoke the system utilities, and update the SMP data sets. If the CCA indicates that the nucleus member IPANUCO1 is to be modified, HHASHIO, the Driver, is called to create a backup copy with the number indicates in the CCA. 2. HHASHCPL, the Completion Determination Procedure, is called to do STSHOD	HMASMAAR HMASMIO HMASMSEC HMASMSEC	routine calls HMASHIPL for SYSHOD completion determination and for processing that includes updating the CDS/ACDS SYSHOD entry status (remove error status), updating the CDS/ACDS MOD, MAC and SRC entry HODID (via call to HMASHIDU), CR2/ACRQ cleanup (via call to HMASHED), ensuring that all requisites are complete (via call to HMASHED), and creating or updating the superseded SYSHOD entry (via call to	
output library is about to be modified, it	Note: Each of the routines called by HMASMAAR also calls the following SMP modules: -As each called routine determines that an output library is about to be modified, it calls HMASMSEC to create a CDS/ACDS SYSMOD	HMASMIDU (HMASMPGC (HMASMSUP (

Diagram 2.7. APPLY/ACCEPT/RESTORE, DELETE, and Interface Routines (Page 2 of 8)

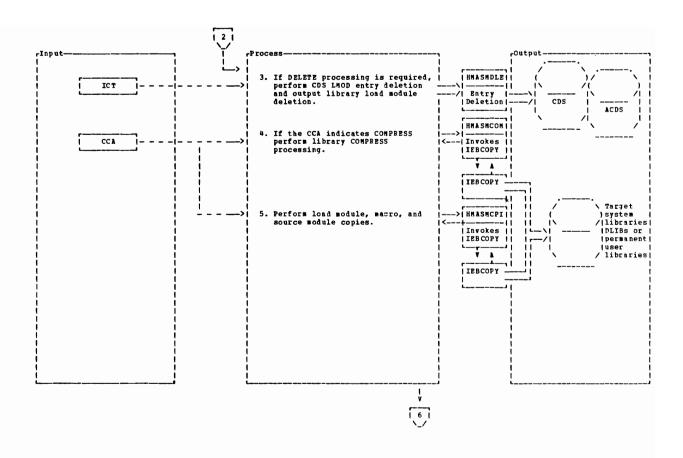


Diagram 2.7 APPLY/ACCEPT/RESTORE, DELETE, and Interface Routines (Page 3 of 8)

HMASMDLE, the DELFTE/CSECT/Element/LMOD Processor, is called. The ICT is checked for entries indicating that delete should be done. For each found, the associated CDS or ACDS entries	HMASMDLE HMASMDLE HMASMIO HMASMMSG	The ICT is searched for members that can be processed by IEBCOPY. (This determination	!
are deleted, along with the CDS load module entry. The actual load module is also deleted from its indicated output libraries if all of its CSECTs have been deleted. If the CCA indicates that COMPRESS processing is required, HMASHCOM, the Compress Interface Procedure, is called. The ICT is mearched for load modules, source modules, and macros that reside on output libraries eligible for compress processing. A library is eligible if it has been specified by ddname in the COMPRESS operand of the SMP control statement or if ALL has been specified as the operand. The compress list is parsed by HMASMDRW, and a list is built with a pointer in the CCA. If the member of a library which is to be compressed is being totally replaced by an element in a SISMOD, then the member is deleted. IEECOPY control statements are created and written to a work data set and IFECOPY is invoked. The CCA try pointers for invoked programs may have been moved during the compress. (Note: macros are never deleted).	HM SAMCOM HM ASMIO IEBCOPY HM ASMISE HM ASMSEC HM ASMCPL	has already been done by the ICT build routines). - For APPLY, load modules, macros, and source modules that were copied at SYSGEN and are available for input as complete replacements (except those having alias names that are not supplied as members in the replacement data set). - For ACCEPT, member replacements available for input as complete replacements (except those having alias names that are not supplied as members in the replacement data set). - For RESTORE, SYSGEN copied members. IEBCOPY control statements are written to a data set based upon the input and output data set information in the ICT, and IEBCOPY is invoked.	
. HHASHCPI, the Copy Interface Procedure, is called.	HMASMCPI HMASMIO IEBCOPY HMASMSBC HMASMSBC HMASMCPL		

Diagram 2.7. APPLY/ACCEPT/RESTORE, DELETE, and Interface Routines (Page 4 of 8)

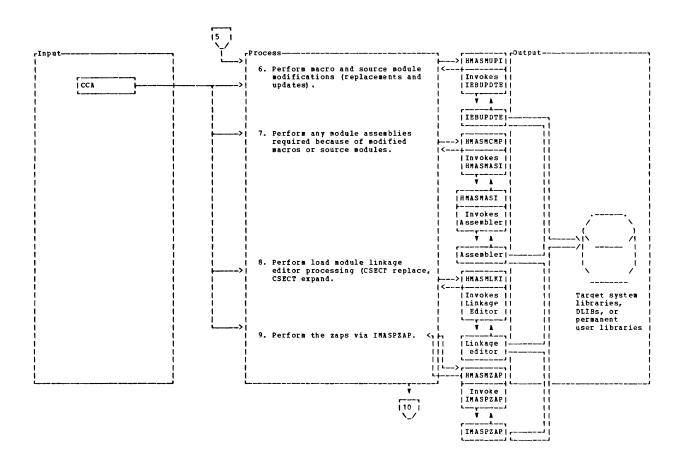


Diagram 2.7. APPLY/ACCEPT/RESTORE, DELETE, Interface Routines (Page 5 of 8)

EXTENDED DESCRIPTION	OBJECT MODULE	EXTENDED DESCRIPTION	OBJECT HODULE
6. HMASMUPI, the UPDTE interface procedure is called.	HMASMUPI HMASMIO HMASMISG IEBUPDTE	set as required. The linkage editor is invoked with the parameters listed in the ICT LMOD entry.	
The ICT SYSMOD entries are searched to find those containing macro or source module modifications. For replacement elements, IEBUPDTE control statements are written to SYSUT1. For update elements, the control statements were previously written to SHPWRK1 for macros and SHPWRK2 for source modules by the Table routines. These data sets will contain merged update control statements from all SYSMODS which have been determined eligible to modify the element. IEBUPDTE is invoked for each element.	HMASMSEC HMASMCPL	is called to perform ZAPs for those MODS in the ICT that indicate ZAP. For each MOD in a SYSMOD, the WAME, VERIFY, and associated IMASPZAP control cards are checked for validity and written to a	HHASHZAP HHASHIO HHASHIOG HHASHIOG I HASPAP HHASHISEC HHASHIOEL
7. HMASHCHP, the Compiler Interface Procedure, is called. The ICT HOD entries are searched for elements requiring an assembly. The Assembler Interface Routine, HMASHASI, is called to assemble one module at a time. The assembler invocation parameters are determined along with the input (SYSIN) and output (SYSPUNCH) data sets, and the assembler is invoked.			
8. HMASMLKI, the Link Edit Interface Procedure, is called. The ICT LMOD entries are searched for those entries requiring link edits. For each load module to be linked, the CDS member is read, and linkage editor control statements are transferred to a data set. Control statements for module inclusions and expansions are also written to the data	Linkage Editor		

Diagram 2.7. APPLY/ACCEPT/RESTORE, DELETE, and Interface Routines (Page 6 of 8)

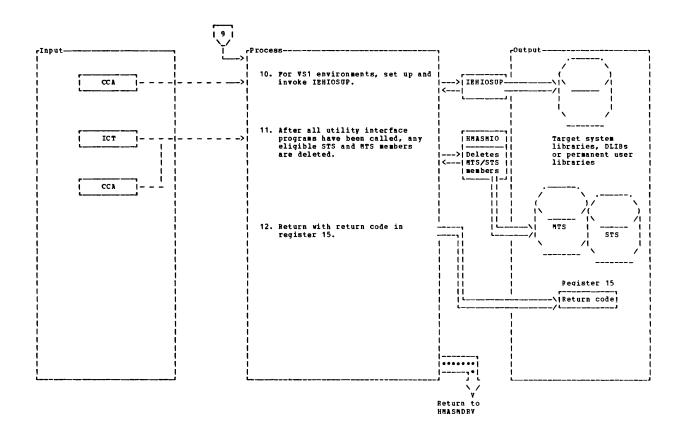


Diagram 2.7 APPLY/ACCEPT/RESTORE, DELETE, and Interface Routines (Page 7 of 8)

EXTENDED DESCRIPTION	OBJECT MODULE
10. The IEHIOSUP utility program is called if the CCA indicates that SVCLIB has been modified by a means other than zaps, and the system being modified is VS1.	I IEHIOSUP
11. Search through the ICT SYSMOD section for successfully completed SYSMODS. For each one found, if the function was APPLY or RESTORE, and the MTS/STS deletion option was specified, delete the associated MTS and STS members via HMASMIO.	HMASMAAR HMASMIO H H H H
12. Return is made to HMASMDRV with the SMP return code in register 15.	HMASMAAR

Diagram 2.7. APPLY/ACCEPT/RESTORE, DELETE, and Interface Routines (Page 8 of 8)

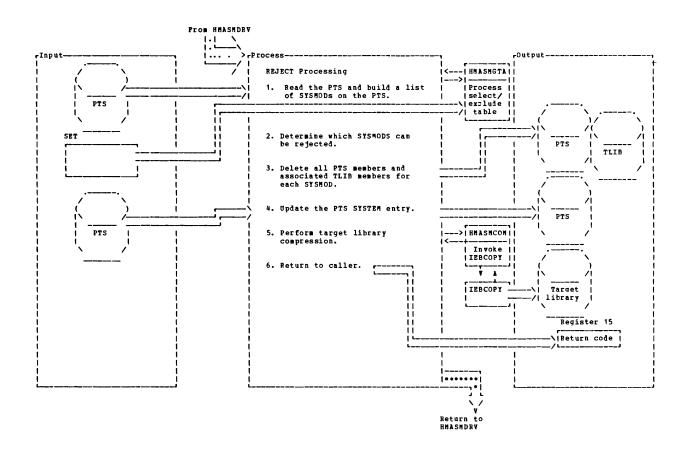


Diagram 2.8. REJECT Processing (Page 1 of 2)

EXTENDED DESCRIPTION	OBJECT MODUI
When a SYSMOD is rejected via the REJECT control statement, REJECT processing is invoked to remove members from the PTS data set.	
1. HMASMREJ, the REJECT Driver, gets control from HMASMDRV, the SMP Driver, to read the PTS and build a list of SYSMOD members on the PTS.	
2. HMASMREJ compares the SYSMODS specified in the REJECT request with the characteristics of the SYSMOD members on the PTS to determine which SYSMOD members are eligible for REJECT. Status indicators for eligible members are set in the list.	HMASMREJ
3. HMASMRJD is called to delete the PTS members for each SYSMOD eligible for rejection and the associated TLIB members.	HM ASMRJD HM ASMIO
4. If a function SYSMOD was rejected, update the PTS SYSTEM entry to remove the FMID.	HMASMREJ HMASMIO
5. If the CCA indicates COMPRESS, perform compress processing by calling HMASMCOM. 6. Return to caller with the SMP return	HMASMREJ HMASMCOM IEBCOPY
code in register 15.	HMASMREJ

Diagram 2.8. REJECT Processing (Page 2 of 2)

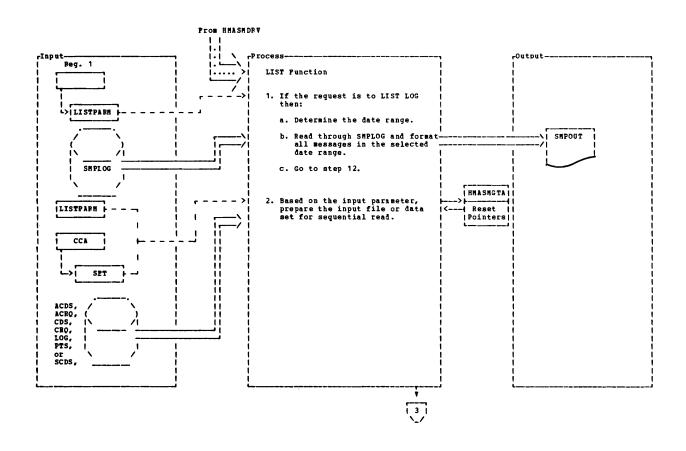


Diagram 2.9. LIST Processing (Page 1 of 8)

EXTENDED DESCRIPTION	OBJECT MODUI
LIST processing is invoked when the LIST control statement is specified, requesting a listing on the SMPOUT data set of all, or selected data from the ACDS, ACRQ, CDS, CRQ, PTS and SCDS data sets, and the contents of the LOG data set.	
1. If LISTPARM indicated a LIST LOG request then:	HMASMLID
a. Determine whether a total list was specified or a list date range was specified.	HMASMLOG
b. Sequentially read thru the LOG data set and for each record that falls within the specified date range or for all records, if no date range is specified, and format and print the record.	HMASMIO HMASMLOG
c. Continue at step 12.	HMASMLID
2. Based on LISTPARM, determine which data set or in-storage files must be closed to ensure that the next read will get the first record in the data set. Data sets or files closed are indicated as:	{
a. HMASMSET, if a selective request (HMASMGTA resets pointers).	HMASMGTA
b. CDS, ACDS, SCDS, CRQ, ACRQ, PTS if in mass mode and a listing is requested for that data set.	HMASMIO
c. CDS if NOAPPLY is indicated and in mass mode,	!
d. ACDS if NOACCEPT is indicated and in mass mode.	
	1

Diagram 2.9. LIST Processing (Page 2 of 8)

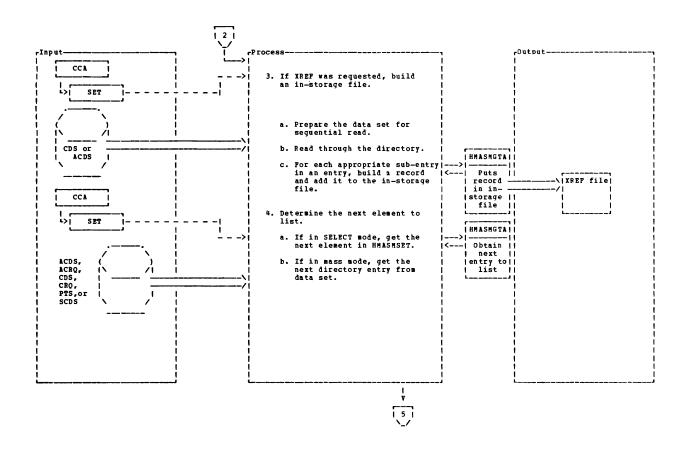


Diagram 2.9. LIST Processing (Page 3 of 8)

EXTENDED DESCRIPTION	OBJECT MODU
3. If the XPEF option is requested:	HMASMLID
a. Prepare the primary data set to be listed for a sequential read.	HMASMXRF
b. Sequentially read through the directory entries for that data set until the end of file is reached.	HMASMIO
c. For each entry read from the data set, determine whether the entry contains data to be used in constructing the implied relationships requested by the XREF option for the type and entries specified on the LIST control statement. For each appropriate entry,	HMASMXRF
format a record containing the implied relationships with those elements for	1
which a listing was requested, and put the record in an in-storage work file.	HM ASMGTA
4. Determine which is the next entry to list from the primary data set.	HMASMLID
a. If in select mode, then the next entry to list is obtained from HMASMSET, and the entry is located on the primary data set.	HMASMGTA
b. If in mass mode, then the next entry is obtained by reading the next directory entry from the primary data set.	HMASMIO
	i
	!
	1

Diagram 2.9. LIST Processing (Page 4 of 8)

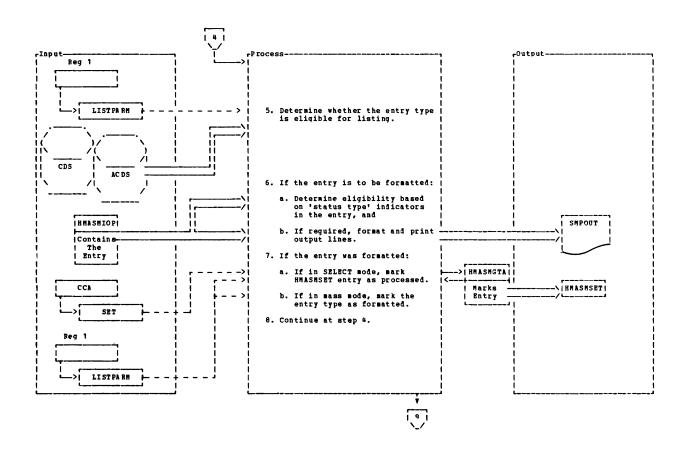


Diagram 2.9. LIST Processing (Page 5 of 8)

	FXTENDED DESCRIPTION	OBJECT MODU
5. De	termine eligibility for listing:	HMASMLID
а.	If in mass mode, the entry type must have been specified on the LIST statement.	
b.	If the type is SYSMOD and NOACCEPT and/or NOAPPLY was requested, the SYSMOD status specified on the LIST statement must be applicable to the SYSMOD entry.	HMASMLC1
	the entry passes eligibility checking om step 5:	
a.	Determine elibility based on other fields in the entry.	 HMASMFPT
b.	If the entry is still eligible, format and print the output lines, displaying all data in the entry. Determine the module to call based on the data set and entry type,	HMASMLCD HMASMFXF HMASMLCP HMASMLCC HMASMFPT HMASMFVL
7. If	the entry was formatted:	HMASMLID
a.	If in select mode, mark the HMASMSET record for that entry as "processed."	HMASMGTA
b.	If in mass mode, mark the entry type "found."	 HMASMLID
	ntinue processing at step 4 with the xt entry.	

Diagram 2.9. LIST Processing (Page 6 of 8)

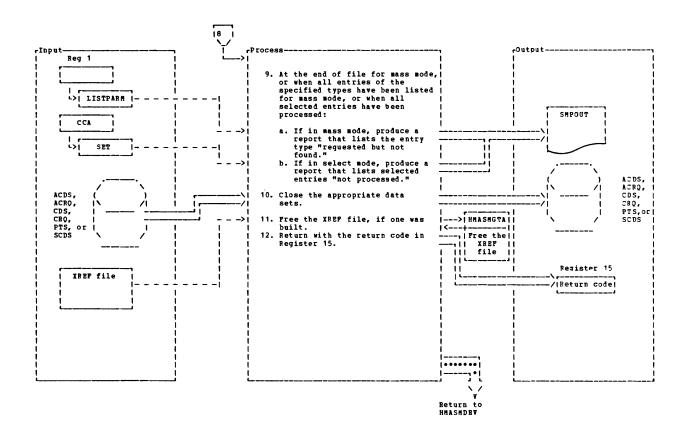


Diagram 2.9. LIST Processing (Page 7 of 8)

	EXTENDED DESCRIPTION	OBJECT MODULE
9.	When all entries have been processed (all selected entries are processed for SELECT mode, or all selected types are processed for mass mode, or all entry types requested have been found and the current type is not equal to one of those for mass mode), produce the summary reports.	
	a. If in mass mode, produce a report that lists the type of entry "requested but not found."	
	b. If in SELECT mode, produce a report that lists each seleted entry that was either not found or not eligible for processing.	
10.	Close all those data sets opened in step 2.	HMASMIO
11.	Free the XREF file if one was built.	HMASMGTA
1 12. 	Return to caller with the return code in register 15.	HMASMLID
	Return code is the highest of:	
	- The highest return code from any module called, or	1
	- 8, if one of the selected entries or types was not found.	
ļ 		

Diagram 2.9. LIST Processing (Page 8 of 8)

Programmer Notes:

These pages provide you with space to make notations.

SECTION 3: PROGRAM ORGANIZATION

This section contains a description of each of the following processing areas:

- Driver, STAE and Report Processing
- Miscellaneous Support Routines
- Table Routines
- I/O Routines
- RECEIVE Processing
- Parse Routines
- JCLIN Processing
- UCLIN Processing
- APPLY/ACCEPT/RESTORE, DELETE and Interface Routines
- REJECT Processing
- LIST Processing

Each of the function descriptions contains:

- A general description of the processing performed
- A depiction of the modules or other SMP processes invoked. Modules called in other processing areas are depicted using only the processing area name.
- An alphabetical listing of all the modules in each processing area and a brief statement of the purpose of each module

DRIVER, STAE AND REPORT PROCESSING DESCRIPTION

The Driver is the controlling process for SMP. It interfaces with the other SMP processing areas to process all available input statements. The Driver consists of three basic phases: initialization, request processing, and termination.

The first section, initialization, sets up the SMP Common Communications Area (CCA). Each SMP data set is opened and input and output buffers are obtained. Indicators are also set in the CCA to show that the DD statement is present. The CDS, ACDS, and PTS SYSTEM entries are examined and information from them is also stored in the CCA. The Driver then sets up a STAE environment.

After initialization is complete, the Driver reads control statements from SMPCNTL. For each control statement, checking is performed, and a parameter list for one of the other SMP processes is constructed. If required for the function, an Control Table (ICT) is also constructed. Internal appropriate SMP process is then called to perform the processing requested. Upon return, any reports necessary are produced by calling the Report process, and the return code is saved for use the RC keyword processing. The Driver then continues processing with the next control statement in SMPCNTL. At end of file on SMPCNTL, the last phase of Driver processing begins.

The last phase of Driver processing is the termination phase. This consists of freeing any input and output buffers obtained via GETMAIN, freeing any internal tables set up, closing all open DCBs, and issuing a message indicating the highest return code set up during processing.

DRIVER, STAE AND REPORT PROCESSING MODULE FLOW

Figure 5 lists the modules and SMP processes that are invoked during the Driver initialization phase:

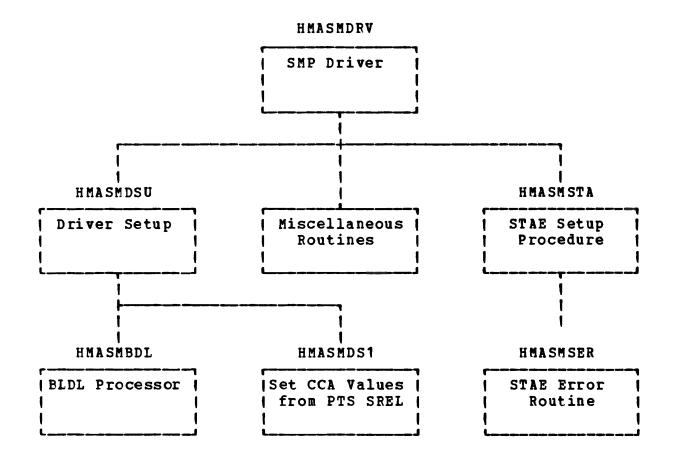


Figure 5. Driver Routine - Initialization

After initialization is complete, the Driver invokes the modules and SMP processes shown in Figure 6 to process the user's request:

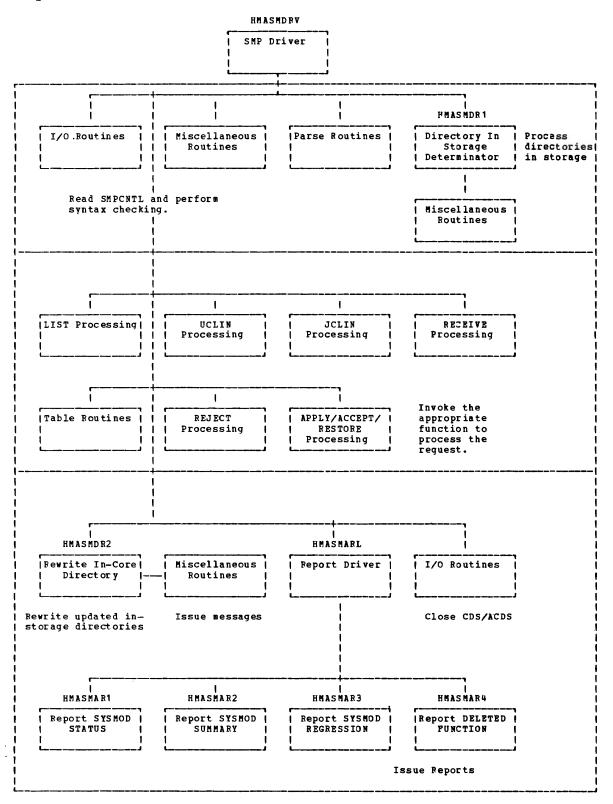


Figure 6. Driver Routine - Request Processing

DRIVER, STAE, AND REPORTS PROCESSING MODULES

The following list describes the modules that comprise the Driver, STAE, and Report processing areas, and describes the purpose of each module:

Driver Modules

Purpose

HMASMBDL	BLDL Processor	Sets up and issues BLDLs for each utility program specified either by the PTS SYSTEM entry or by processing defaults.
HMASMDRV	SMP Driver	Reads and scans SMP control statements from SMPCNTL, gets work area buffers, initializes parameters and calls the appropriate processing driver. At the end of processing it frees the work areas, ensures that all open data sets are closed, and returns to the caller with the return code in Register 15.
HMAS MDR1	Directory in Storage Determinator	Determines the data sets and directories required to be in storage based upon the function being performed.
HMASMDR2	Rewrite In-Core Directory	Performs a directory rewrite to direct access if the data set directory in storage has been updated.
HMASMDS1	Set CCA Values From PTS SREL	Sets the CCA fields from data in the CDS, ACDS and PTS SYSTEM entries.
HMASMDSU	Driver Setup	Initializes CCA fields for utility interfaces, opens SMP data sets, and sets

selected CCA fields.

STAE Modules Purpose

HMASMSER STAE Error Routine Issues ABEND messages and causes the in-storage copy of the directory to be written.

HMASMSTA STAE Setup Procedure Establishes and cancels

HMASMSTA STAE Setup Procedure Establishes and cancels the STAE environment with HMASMSER as the error routine.

Report Modules Purpose

HMASMARL Report Driver

Calls the appropriate module to produce the SYSMOD STATUS REPORT, the SYSMOD SUMMARY REPORT, the SYSMOD REGRESSION REPORT and the SYSMOD DELETION REPORT.

HMASMAR1 Report: SYSMOD STATUS Extracts information from the ICT for APPLY, RESTORE or ACCEPT to produce the SYSMOD STATUS REPORT.

HMASMAR2 Report: SYSMOD SUMMARY Extracts information from the ICT for APPLY, RESTORE or ACCEPT to produce the

HMASMAR3 Report: SYSMOD Extracts information from REGRESSION the ICT based on supersede data for APPLY, RESTORE or ACCEPT to produce the

HMASMAR4 Report: DELETED Extracts data from the ICT to list the SYSMODs that are deleted for APPLY or

ACCEPT.

SYSMOD SUMMARY REPORT.

SYSMOD REGRESSION REPORT.

MISCELLANEOUS SUPPORT DESCRIPTION

The Miscellaneous Support modules are used by other SMP processes to produce SMP messages, to access tables, to update the IOP, to create a CDS/ACDS SYSMOD entry with ERROR status, and to process DLIB and source module names. The following list describes the modules that comprise the Miscellaneous Support processing area:

Miscellaneo	us Support Modules	Purpose
HMASMDC1	Message Text Declares	Contains all the SMP messages.
HMASMDC2	Communications Control Area	Contains some of the fixed length common data areas used by SMP.
HMASMGTA	General Table Access Routine	Allocates and manages tables consisting of a variable number of fixed length keyed records.
HMASMMSG	Message Module	Completes messages with variable data and issues the messages.
HMASMSEC	CDS/ACDS SYSMOD Entry Creator	Creates the CDS/ACDS SYSMOD entries from the ICT SYSMOD section entries.
HMASMSUB	General Subroutine Module	Packs and unpacks CDS and ACDS names and GETMAINs the IOP. It also builds the relfile data set names.
HMASMVLU	Variable Length Update To IOP	Updates the variable-list sections of an IOP.

TABLE ROUTINE DESCRIPTION

The Internal Control Table (ICT) is used to drive the SMP APPLY, ACCEPT and RESTORE functions. Data in the ICT provides information required by the Interface Routines to move elements supplied in a PTF, APAR, USERMOD or function SYSMOD from the SYSMOD to the user's target system. The data in the ICT is arranged in three sections: the ICT PTF section, the ICT MOD section and the ICT LMOD section.

THE ICT PTF SECTION

The ICT PTF section contains entries that represent the SYSMOD; prerequisites (PREs), requisites (REQs), conditional reguisites (IFREQs), functional ownership relationship with other SYSMODs (FMID), superseding relationships with other SYSMODs (SUPs) and control information used by the ICT build routines, Interface routines and SMP processes. The ICT PTF section is the first part of the ICT that is built. It establishes the SYSMOD environment used to build the ICT MOD section.

THE ICT MOD SECTION

The ICT MOD section is built from the SYSMODs represented by entries in the ICT PTF section, and contains information about the elements that are supplied by the SYSMODs.

The entries describe modules, macros, source modules, zaps, macro updates, source updates and assemblies required for macro source elements. They also contain information such as the ownership element's functional attribute (FMID), the last-replacement attribute (RMID), the SYSMOD in the ICT that supplied the element, and whether the element should be moved to the target system (selected/excluded).

Element selection is an integral part of building the MOD section. During the MOD section build process, the text selected elements, supplied in-line following their modification control statements, is moved to the SMPWRK data sets.

THE ICT LMOD SECTION

The ICT LMOD section contains information required to link edit, zap, or copy load modules for the elements represented by ICT MOD section entries into the target system or distribution libraries. The data used to build this section comes from the CDS or ACDS LMOD entries.

BUILDING THE ICT

Inputs to the Build Process

The data required for building the ICT comes from: 1) the CDS and ACDS data sets, 2) data supplied in the SMP modification control statements on the PTS data set for the SYSMODS being applied, accepted, or restored, and 3) data supplied on the CRQ or ACRQ data set for SYSMODS previously applyed or accepted. Inputs to the build process are shown in Figure 7.

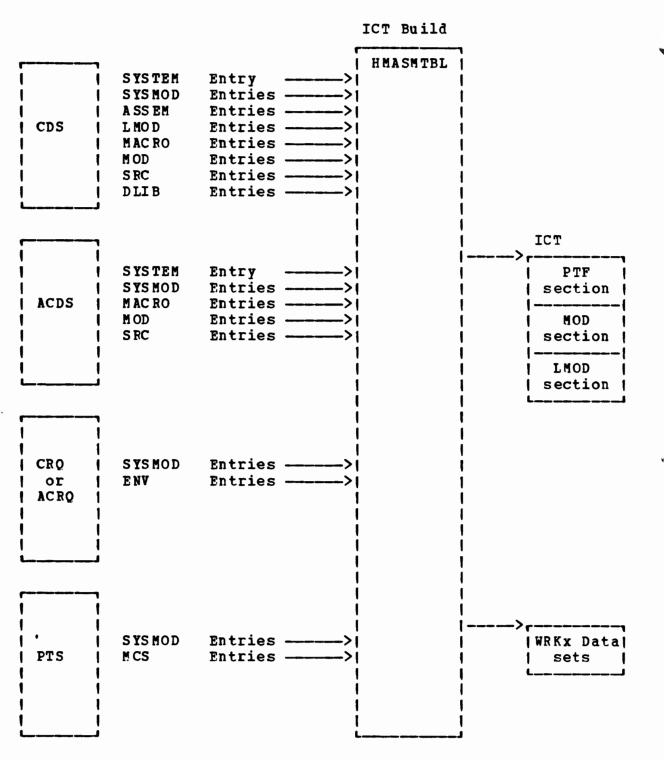


Figure 7. Inputs To The ICT Build Process

ICT Build Process Overview

The ICT is built for the SMP APPLY, ACCEPT and RESTORE functions by calling the ICT Build Driver, HMASMTBL. Figure 8 is an overview of the modules and routines used in the Internal Control Table (ICT) build process.

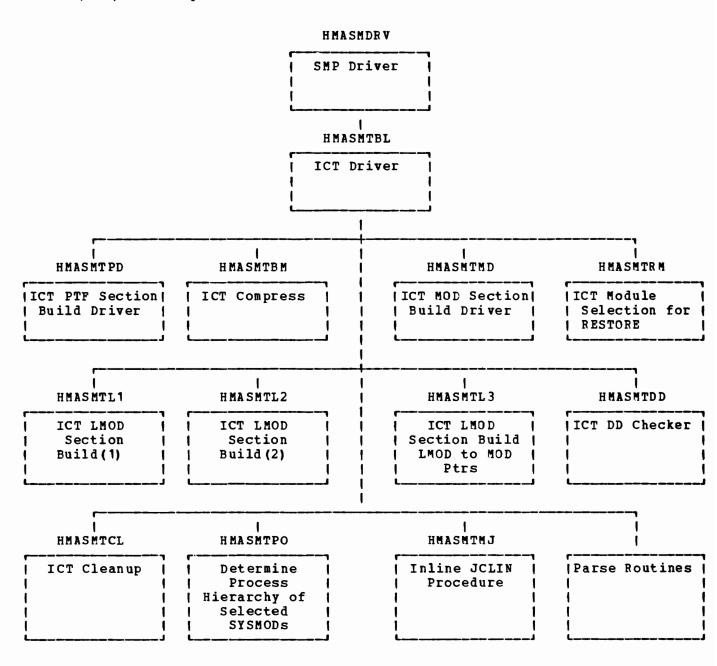


Figure 8. ICT Build Process Overview

ICT PTF Section Build Overview

Figure 9 is an overview of the module flow to build the PTF section of the ICT for the APPLY, ACCEPT and RESTORE functions. Modules such as HMASMTAI (Add ICT Index Entry), that are called repeatedly, are not shown for the purpose of simplicity.

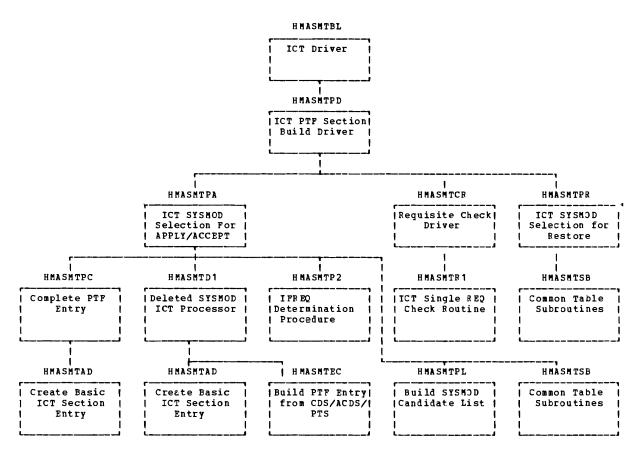


Figure 9. ICT PTF Section Build Overview

ICT MOD Section Build Overview

Figure 10 shows the flow between modules and other processes to build the ICT MOD section for the APPLY, ACCEPT and RESTORE processes. Modules called repeatedly are not shown for the purpose of simplicity.

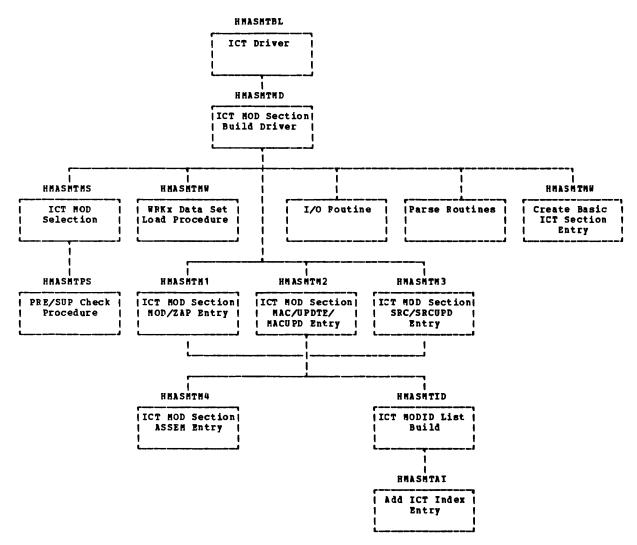


Figure 10. ICT MOD Section Build Overview

ICT LMOD Section Build Overview

Figure 11 shows the flow of the modules used to build the LMOD section of the PTS.

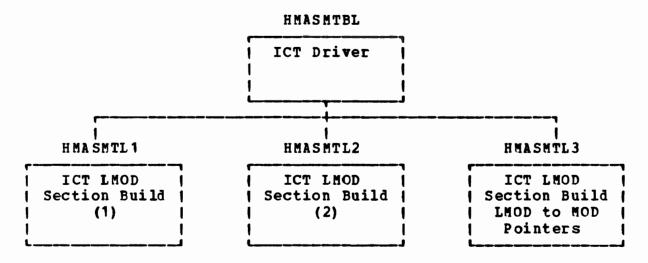


Figure 11. ICT LMOD Section Build Overview

ICT STORAGE USAGE

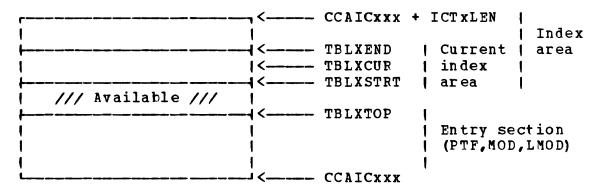
The three areas of storage set aside for the ICT are the ICT PTF section, the ICT MOD section, and the ICT LMOD section. Pointers to these areas of storage are found in the CCA (CCAICPTF points to the ICT PTF section, CCAICMOD points to the ICT MOD section and CCAICLMD points to the ICT LMOD section). Each area of storage is divided into two parts: an entry section and an index area. The entry section contains the fixed-length portions of the PTF, MOD or LMOD entries. The index area contains the variable lists pointed to by fields in the PTF, MOD and LMOD entries. The amount of storage allocated to each ICT section is found in a control block (ICTCORE), which is pointed to by a field in the CCA as illustrated below:

ICTPLEN	<	CCAICT Length	of	PTF section
ICTMLEN		Length	of	MOD section
ICTLLEN		Length	of	LMOD section

To manage the storage allocated to the two parts of the ICT, a

set of pointers is maintained in the TBLX parameter list. These pointers, illustrated below, may be used by an ICT build procedure which must add data to the ICT.

Two ICT build procedures are available to the other ICT build procedures to assist in adding data to the ICT. The HMASMTAD procedure adds a specified type (PTF, MOD or LMOD) entry to the entry section of the ICT. The HMASMTAI procedure adds an entry (whose length is specified by the caller) to a specified variable list in the index area of the ICT. These two procedures maintain the pointers illustrated below.



• CCAICxxx - Address of ICT section

CCAICPTF for ICT PTF section CCAICMOD for ICT MOD section CCAICLMD for ICT LMOD section

• ICTXLEN - Length of the ICT section

ICTPLEN for ICT PTF section ICTMLEN for ICT MOD section ICTLLEN for ICT LMOD section

- TBLXCUR Address of current position within index area
- TBLXSTRT Address of start of current 512 byte index area
- TBLXEND Address of end of current index area

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TABLE ROUTINE MODULES

Table Routine Modules

The following list describes the Table routine modules:

Purpose

Tubic Routi		1 d2 pose
HMASMTAD	ICT Create Basic Section Entry	Adds a PTF MOD or LMOD entry to the ICT and initializes the entry.
HMASMTAI	Add ICT Index Entry	Adds an index entry to the ICT.
HMAS MTBL	ICT Driver	Builds the ICT by calling a series of SMP modules when an APPLY, ACCEPT or RESTORE is being performed.
HMASMTBM	ICT Compress	Moves ICT entry section to compress the completed ICT.
HMASMTCL	ICT Cleanup	Frees storage no longer required after the ICT is completed.
HMAS MTCR	Requisite Check Driver	Determines PRE, REQ, and IFREQ requirements for all PTF entries in the ICT.
H M A S M T D D	ICT DD Checker	Checks for required DD statements in SMP JCL based upon data sets for input and output operations.
HMASMTD1	Deleted SYSMOD Processor	Builds ICT PTF entries for deleted SYSMODs.
HMAS MTEC	Build PTF Entry from CDS/ACDS/PTS	Builds an ICT PTF entry and its index lists from a CDS, ACDS, or PTS SYSMOD entry.
HMASMTID	ICT MODID List Build	Obtains the FMID, RMID and UMID entries from the CDS/ACDS, and associates

		selected at the time the ICT is being built.
HMASMTL1	ICT LMOD Section Build(1)	Builds the LMOD section entries in the ICT.
HMASMTL2	ICT LMOD Section Build(2)	Fills in the ICT LMOD entries based on the CDS LMOD entries and the DLIBs.
HMAS MTL3	ICT LMOD Section Build LMOD to MOD Pointers	Builds a list of addresses that point to the ICT MOD section entries affecting each load module.
HMASMTMD	ICT MOD Section Build Driver	Creates ICT MOD entries based upon ICT PTF entries.
HMASMTMJ	Inline JCLIN Procedure	Supports inline JCLIN during APPLY and RESTORE processing.
HMASMTMS	ICT MOD Section	Selects elements from various SYSMODS that have elements in common.
HMASMTMW	WRKx Data Set Load Procedure	Builds WRKx data set members from elements on the PTS.
HMASMTM1	ICT MOD Section MOD/ZAP Entries	Initializes fields in the ICT MOD section entry for a ++MOD/++ZAP and assemblies.
HMASMTM2	ICT MOD Section MAC/UPDTE/MACUPD Entry	Initializes fields in the ICT MOD section entry for a ++MAC/++UPDTE/++MACUPD.
HMASMTM3	ICT MOD Section SRC/SRCUPD Entry	Initializes fields in the ICT MOD section entry for a ++SRC/++SRCUPD.
HMASMTM4	ICT MOD Section ASSEM Entries	Builds ASSEM MOD section entries for macro and source elements.
HMASMTPA	ICT SYSMOD Selection for APPLY/ACCEPT	Builds the PTF section of the ICT by processing SYSMODS found on the PTS data set for APPLY and

them with the module being

ACCEPT.

HMASMTPC	Complete PTF Entry	Creates ICT PTF entries based upon ++VER modification control statement data in the PTS.
HMASMTPD	ICT PTF Section Build Driver	Directs the construction of the ICT PTF entries.
HMASMTPL	Build SYSMOD Candidate LIST	Builds a GTA file contain- ing the SYSMOD-IDs and FMIDs of eligible SYSMODS for APPLY or ACCEPT.
HMASMTPO	Determine Processing Hierarchy of Selected SYSMODs	Determines processing hierarchy of selected SYSMODs and assigns each one a processing order number based on PRE, VERSION and FMID.
HMASMTPR	ICT SYSMOD Selection for RESTORE	Creates ICT PTF entries for the list of SYSMODS specified via SELECT or GROUP in the RESTORE request.
HMASMTPS	PRE/SUP Check Procedure	Determines whether there is a valid PRE or SUP relationship between SYSMODs.
HMASMTP2	IFREQ Determination Procedure	Adds SYSMODS to the IFREQ list associated with the ICT PTF entry passed as a parameter.
HMASMTRM	ICT Module Selection for RESTORE	Selects modules and builds the ICT MOD entries for RESTORE processing.
HMASMTR1	ICT Single REQ Check Routine	Checks the PRE, REQ and IFREQ status for one ICT PTF entry.
HMASMTSB	Common Table Subroutines	Contains subroutines that are commonly used by the Table modules.

I/O ROUTINE DESCRIPTION

The I/O routine handles all the input and output operations done by SMP. It receives one parameter, the HMASMIOP, which defines the data set to be accessed and the function to be performed on that data set or data set member. The I/O routine also handles the allocation and deletion of the loaded relfiles.

The I/O routine handles all accessing of in-storage directories. It determines whether a data set directory is in storage and does the necessary processing to simulate actual directory access When processing in CHECK mode, two in-storage directories are maintained. The primary one contains all the directory data from the data set, and the secondary directory contains only those updates that were done since the primary directory was loaded.

The HMASMIOP mapping macro defines all available functions. addition, it defines, for each function, those data sets for which the function is valid, the input and output required for the function, and the valid return codes from the function.

I/O MODULE FLOW

The modules and functions that are invoked during I/O processing are shown in Figure 12:

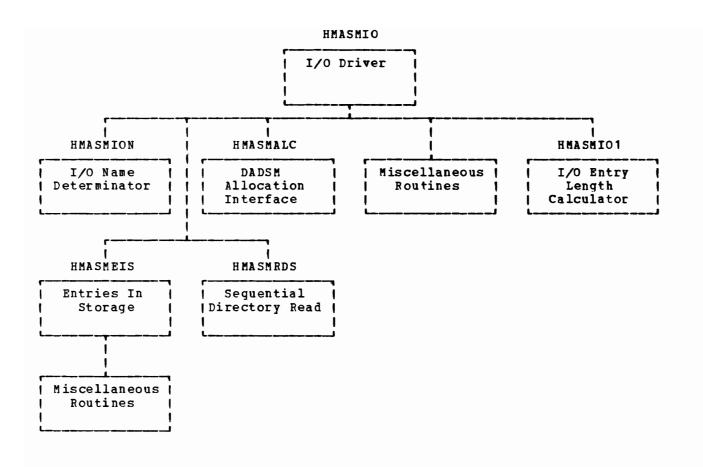


Figure 12. I/O Module Flow

I/O MODULES

I/O Modules

The following list describes the I/O modules:

HMASMALC	DADSM Allocation Interface	Dynamically allocates the work data sets via the DADSM interface.
HMAS MCRD	Control Read Routine	Processes 80-character records. It is invoked in the Driver Routine and during RECEIVE processing.
HMASMEIS	Entries in Storage	Handles all operations that support a PDS directory in storage, including initializing the in-storage directory, performing STOW and BLDL, reading a sequential directory, and processing and freeing in-storage directories.
HMASMIO	I/O Driver	Supervises the I/O operations indicated in the parameter list supplied by the caller.
HMASMION	I/O Name Determinator	Encodes/decodes special PDS member names used by SMP.
HMASMIO1	I/O Entry Length Calculator	Calculates the length of all types of entries for all SMP data sets.
HMASMRDS	Sequential Directory Read	Reads sequentially through SMP data set directories and handles multiple data sets concurrently.

Purpose

RECEIVE PROCESSING DESCRIPTION

RECEIVE processing is invoked by the SMP user to move SYSMODS from the SMPPTFIN data set to the PTS data set. RECEIVE processing is controlled by the SELECT or EXCLUDE list on the RECEIVE control statement and the PTS data set SYSTEM entry.

When a SYSMOD is successfully received, it is represented on the PTS data set by a SYSMOD entry, which is a condensation of the data supplied on the SMP modification control statements, and an MCS entry, which contains the actual modification control statements, text, and object decks supplied via SMPPTFIN.

HMASMREC, the RECEIVE Driver, receives control from HMASMDRV, the SMP Driver, to perform RECEIVE processing. HMASMREC initializes four GTA files:

- SUMMARY: This file contains one record for each SYSMOD processed. Status fields in this record are used and set by other RECEIVE modules.
- SREL/FMID: This file contains a record for each ++VER modification control statement encountered, and is used by HMASMREC to ensure that a SYSMOD supplies no more than one ++VER modification control statement for the same SREL/FMID combination.
- PTS SYSTEM: This file contains data from the PTS SYSTEM entry that defines the SPELs and FMIDs applicable to the PTS data set.
- RELFILE: This file is used to keep track of the elements supplied in unloaded data sets on SMPPTFIN.

The information in the GTA files is used by HMASMRCD, the Load Relfile Processor module, after all SYSMODS in the modification control statement file have been processed.

Having initialized the GTA files, HMASMREC initializes the RECX parameter list (RECXPARM), which is passed to all other RECEIVE modules. This parameter list contains data that defines the RECEIVE processing state for all RECEIVE modules.

The SMPPTFIN data set is processed one statement at a time. The first record of each statement is read by HMASMREC via HMASMCRD, the Control Read Routine, (which is described in the I/O Routine description) and written to the PTS MCS entry by HMASMREC via HMASMCRD. Subsequent records that make up a statement are read and written by the modification control statement Parse routines. User exit processing is handled by HMASMCRD. User-exit return codes, to stop SYSMOD processing (STOPPTF), RECEIVE processing (STOPREC), or SMP processing (STOPSMP) are passed back from HMASMCRD or HMASMMPD for appropriate action from HMASMREC.

When a header modification control statement is encountered by HMASMREC, control is passed to either HMASMRCC, the SYSMOD Completion Processor or HMASMRCF, the Flush SYSMOD Procedure, to complete the processing of any previously in-process SYSMOD.

The PTS MCS entry and the PTS SYSMOD entry are stowed for the successful SYSMOD by HMASMRCC.

HMASMRCF is invoked for SYSMODS that failed during RECEIVE processing. The PTS MCS and SYSMOD entries for the failing SYSMODs are deleted. Further, any data put in the GTA RELFILE file for the failing SYSMOD is removed.

When all SYSMODS in the SMPPTFIN data set are processed, all elements supplied in unloaded data sets on SMPPTFIN are loaded to the TLIB data sets by HMASMRCD.

Finally, the RECEIVE SUMMARY REPORT, which summarizes the SYSMODs processed by RECEIVE, is put to SMPRPT by HMASMRCL. This routine uses the records of the GTA SUMMARY file to generate its reports.

RECEIVE MODULE FLOW

The modules and SMP processes invoked during RECFIVE processing are shown in Figure 13:

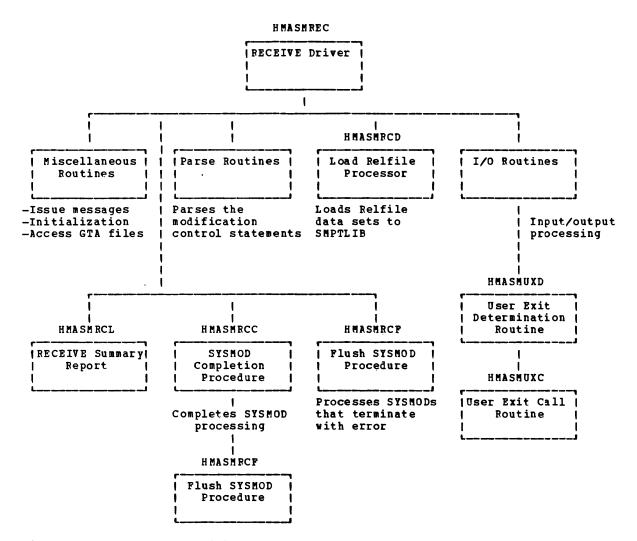


Figure 13. RECEIVE Module Flow

RECEIVE MODULES

The following list describes the RECEIVE modules:

Receive Mo	dule	Purpose
HMAS MRCC	SYSMOD Completion Procedure	STOWS SYSMOD and MCS entries on the PTS.
HMAS MRCD	Load Refile Processor	Loads relative files for SYSMODs to direct access data sets (TLIB).
HMASMRCF	Flush SYSMOD Procedure	Cleans up the PTS entries for SYSMODs that terminate with errors during RECEIVE.
HMAS MRCL	RECEIVE Summary Report	List SYSMODs received or not received via the RECEIVE SUMMARY REPORT on SMPOUT.
HMASMREC	RECEIVE Driver	Supervises the RECEIVE process for SYSMODs, initializes buffers, work areas and parameters.
HMAS MUXD	User Exit Determination Routine	Supplied by the user to tell SMP which modules should be called for each user exit.
HMASMUXC	User Exit Call Routine	Interfaces with all user exits.

PARSE ROUTINE DESCRIPTION

The Parse routines are called during RECEIVE, APPLY, and ACCEPT processing to fill in the Modification Control Buffer (MCB) with the keywords and operands of the modification control statements in the CRP Buffer. Parse also checks the modification control statements for syntax errors.

When passed an Input/Output Parameter (IOP) by the RECEIVE process, Parse fills in the IOP for the SYSMOD. The IOP represents the SYSMOD that gets put into the PTS during RECEIVE processing.

PARSE ROUTINE MODULE FLOW

The modules and SMP processes invoked during Parse processing are shown in Figure 14:

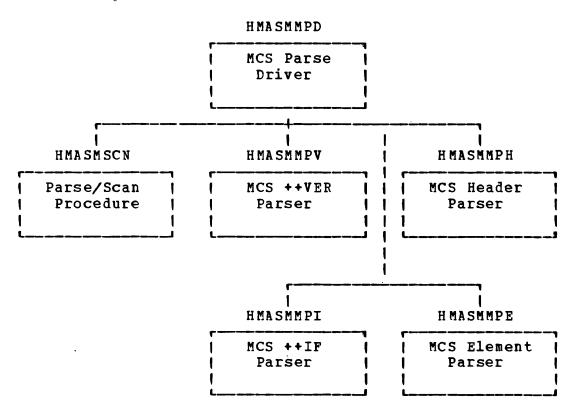


Figure 14. Parse Poutine Module Flow

PARSE ROUTINE MODULES

The following list describes the modules invoked to parse modification control statements:

Parse Modu	les	Purpose
HMASMMPD	MCS Parse Driver	Determines the type of modification control statement and routes control to the appropriate routine.
HMASMMPE	MCS Element Parser	Verifies syntax and parses the ++MOD, ++JCLIN, ++MAC, ++MACUPD, ++UPDTE, ++SRCUPD, ++ZAP, and ++SRC modification control statements.
HMASMMPH	MCS Header Parser	Verifies syntax and parses the ++FUNCTION, ++PTF, ++USERMOD and ++APAR modification control statements.
HMASMMPI	MCS ++IF Parser	Verifies syntax and parses the ++IF modification control statements.
HMASMMPV	MCS ++VER Parser	Verifies syntax and parses the ++VER modification control statements.
HMASMSCN	Parse/Scan Procedure	Checks the keyword against the input string.

JCLIN PROCESSING DESCRIPTION

JCLIN processing gets control when the user specifies the JCLIN control statement or the ++JCLIN modification control statement to create or update the CDS.

JCLIN processing examines the JCL input statements for assembly, copy, and linkage editor steps. From the information in the JCL and sysin data for each step, the routine creates new CDS entries, or modifies entries on the CDS. The CDS entries are used by subsequent SMP processing to control the application of SYSMODs.

JCLIN MODULE FLOW

The modules and SMP processes invoked during JCLIN processing are shown in Figure 15:

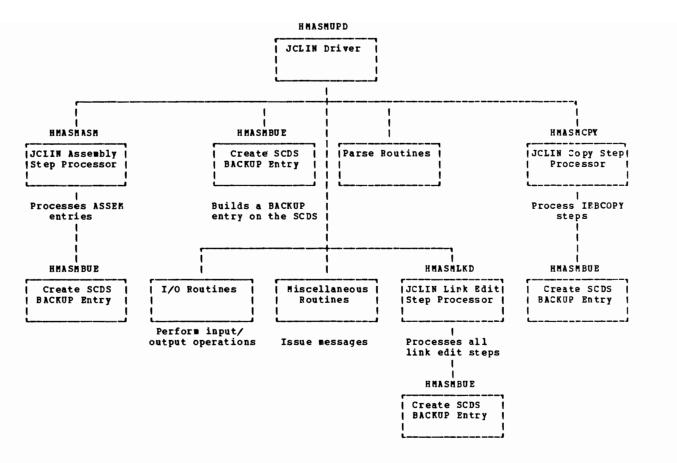


Figure 15. JCLIN Module Flow

JCLIN MODULES

The following list describes the JCLIN modules:

JCLIN Modules Pur	pose
-------------------	------

HMASMASM	JCLIN Assembly Step Processor	Creates/updates the CDS ASSEM and MAC entries and processes all assembly steps in the JCLIN input.
HMASMBUE	Create SCDS BACKUP Entry	Creates a BACKUP entry in the SCDS that contains a list of the CDS elements added or modified for a SYSMOD that contains inline JCLIN.
HMASMBUR	Restore CDS from SCDS BACKUP Entry	Creates CDS entries from SCDS BACKUP entries for any restored SYSMOD that contains inline JCLIN. It is invoked in the Table routine by HMASMTMJ.
HMASMCPY	JCLIN Copy Step Processor	Creates/updates CDS MOD, LMOD and DLIB entries, and processes all IEBCOPY steps in JCL input.
HMASMLKD	JCLIN Link Edit Step Processor	Creates/updates CDS, MOD, and LMOD entries, and processes all link edit steps in the JCL input.
HMASMUPD	JCLIN Driver	Reads the JCL cards from JCLIN, determines the type of step, and calls the appropriate JCLIN module to process the SYSIN data.

UCLIN PROCESSING DESCRIPTION

UCLIN processing gets control when the user specifies the UCLIN control statement. UCLIN processing allows the user to add, delete or change the ACDS, ACRQ, CDS, CRQ, MTS, PTS, SCDS or STS data sets. Processing consists of updating the specified data set entry for each UCL statement specified.

UCLIN MODULE FLOW

The modules and SMP processes invoked during UCLIN processing are shown in Figure 16:

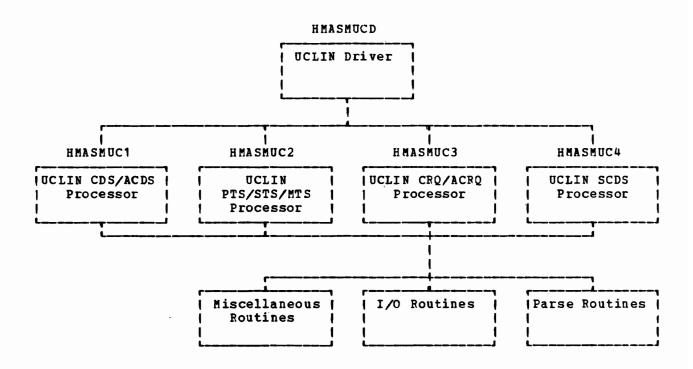


Figure 16. UCIIN Module Flow

UCLIN MODULES

The following list describes the UCLIN modules:

UCLIN Modu	les	Purpose
HMASMUCD	UCLIN Driver	Determines the SMP data set to be modified and calls the appropriate routine.
HMASMUC1	UCLIN CDS/ACDS Processor	Performs all UCLIN processing of the CDS and ACDS data sets.
HMAS MUC2	UCLIN PTS/STS/MTS Processor	Performs all UCLIN processing of the PTS, STS, and MTS data sets.
HMASMUC3	UCLIN CRQ/ACRQ Processor	Performs all UCLIN processing of the CRQ or ACRQ data sets.
HMASMUC4	UCLIN SCDS Processor	Performs all UCLIN processing of the SCDS data set.

APPLY/ACCEPT/RESTORE processing is invoked when the user specifies an APPLY, ACCEPT or RESTORE control statement. APPLY processing updates the target system libraries and the CDS entries for SYSMODs being processed. ACCEPT processing updates the distribution or permanent user libraries and the ACDS entries for SYSMODs being processed. RESTORE processing removes SYSMODs processed by APPLY from target system libraries. To perform this processing, SMP interfaces with IEBCOPY, IEBUPDTE, the assembler, the linkage editor, IMASPZAP, and IEHIOSUP.

The APPLY/ACCEPT/RESTORE Driver, HMASMAAR, is invoked by the SMP Driver, HMASMDRV, after the ICT has been successfully constructed. The ICT indicates which SYSMODs should be processed and the CCA indicates the function to be performed (APPLY, ACCEPT or RESTORE) and the interface to be used to modify the output libraries (target system libraries, DLIBS, or permanent user libraries).

If the CCA indicates that the nucleus member IEANUC01 is to be modified, a back-up nucleus is created using the user-supplied suffix.

If the DELETE keyword is specified on a modification control statement, the CDS or ACDS and output library deletions are performed.

If COMPRESS is specified on a control statement, the libraries specified are compressed before the SYSMOD is installed.

Output library load modules that can be copied from their input data sets are processed by IEBCOPY via the COPY Interface Procedure, HMASMCPI.

modules, the UPDTE modify macros and source Interface Procedure, HMASMUPI, is given control and invokes IEBUPDTE. After the macros and source modules have been replaced or updated, HMASMCMP, the Compiler Interface Procedure, HMASMASI, the Assembler Interface Procedure to invoke the assembler. This produces object modules which are combined with the object modules and load modules from the SYSMOD input for linkage editor processing. HMASMLKI, the Link Edit Procedure, invokes the linkage editor for CSECT replacements and expansions.

HMASMZAP, the ZAP Interface Procedure, is invoked to process IMASPZAP modifications to output library load modules. All IMASPZAP verifications are performed and checked before any replacements are made.

If the output libraries are VS1 libraries, and SVCLIB has been modified, IEHIOSUP is invoked to process SVCLIB.

Control is returned to HMASMDRV, the SMP Driver when all modifications have been completed, or if a function termination error has occurred.

APPLY/ACCEPT/RESTORE, DELETE, AND INTERFACE ROUTINE MODULE FLOW

An overview of the module flow among the APPLY/ACCEPT/RESTORE, DELFTE and Interface Routines is shown in Figure 17:

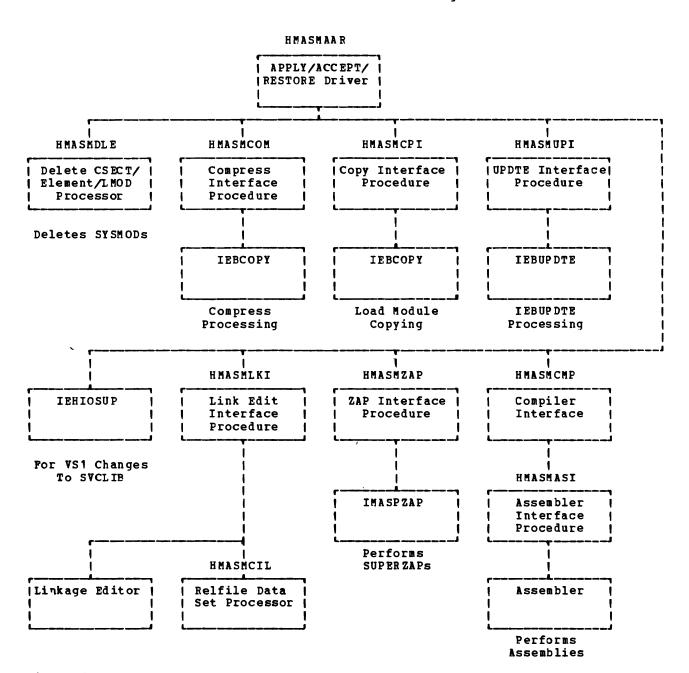


Figure 17. APPLY/ACCEPT/RESTORE, DELETE, Interface Routine Module Flow

COMMONLY CALLED MODULES

Each of the functions shown in Figure 17 invokes the modules or SMP processes shown in Figure 18:

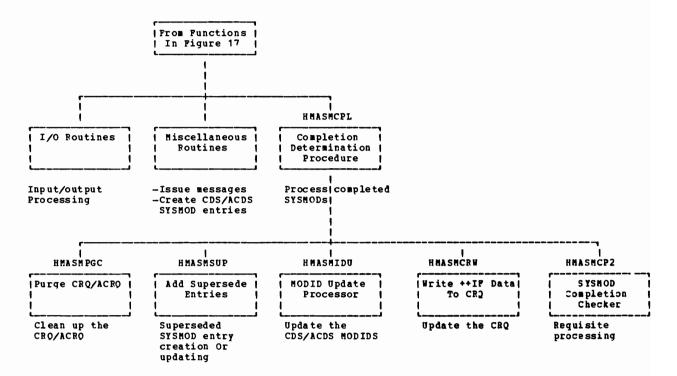


Figure 18. Commonly Invoked Modules in the APPLY/ACCEPT/ RESTORE, DELETE and Interface Routines

APPLY/ACCEPT/RESTORE, DELETE, INTERFACE ROUTINE MODULES

The following list describes the modules that are part of APPLY/ACCEPT/RESTORE processing, DELETE processing, and the Interface routines:

APPLY/ACCEPT/RESTORE Modules		Purpose
HMASMAAR	APPLY/ACCEPT/RESTORE Driver	Calls utility interface modules.
HMASMCPL	Completion Determination Routine	Determines which SYSMODs have been completely processed, and updates CDS and ACDS entries.
HMASMCP2	SYSMOD Completion Checker	Ensures that all requisites are complete for a SYSMOD.
HMASMCRW	Write ++IF Data to CRQ	Reads ++IF data from a GTA file, formats it into CRQ and ACRQ entries, and writes the entries onto the CRQ and ACRQ.
HMASMIDU	MODID Update Processor	Update/create CDS/ACDS element entry MODID fieldS as a result of SYSMOD installation.
HMAS MPGC	Purge CRQ/ACRQ	Deletes all CRQ and ACRQ records for a SYSMOD.
HMASMSUP	Add Supersede Entries	Updates the superseding SYSMOD name in the SUPBY list in the ACDS or CDS.
DELETE Modu	les	Purpose
HMASMDLE	Delete CSECT/ELEMENT/ LMOD Processor	Scratches deleted load modules from target system libraries. Scratches CDS and ACDS LMOD and MOD entries.

Interface Modules

Purpose

		G-11-1
HMASMASI	Assembler Interface Procedure	called once for each assembly to be performed, indicated in the ICT MOD entries. It determines the input and output data sets and assembler parameters, and invokes the assembler.
HMASMCIL	Relfile Data Set Preprocessor	Copies members from relfile data sets to work data sets for link edit processing.
HMAS MCMP	Compiler Interface Procedure	Calls the appropriate compiler interface based on the ICT MOD entries.
HMAS MCOM	Compress Interface Procedure	Compresses target libraries during APPLY, ACCEPT and RESTORE.
HMASMCPI	Copy Interface Procedure	Searches the ICT for load modules, source modules and macros which can be processed by IEBCOPY, builds IEBCOPY control statements for each member to be copied, and invokes IEBCOPY.
HMASMLKI	Link Edit Interface Procedure	Searches the LMOD section of the ICT for load modules to link edit, builds linkage editor control statements and invokes the linkage editor.
HMASMUPI	UPDTE Interface Procedure	Processes replacements and then updates to macro and source libraries for APPLY, ACCEPT and RESTORE by building IEBUPDTE control statements and invoking IEBUPDTE.
HMASMZAP	ZAP Interface Procedure	Performs ZAPs to target system load modules for APPLY and ACCEPT.

REJECT PROCESSING DESCRIPTION

REJECT processing gets control when the user specifies the REJECT control statement. Each eligible PTS member is removed from the PTS.

If a function SYSMOD is rejected, the FMID of the function is removed from the PTS SYSTEM entry.

REJECT MODULE FLOW

The modules and SMP processes invoked during REJECT processing are shown in Figure 19:

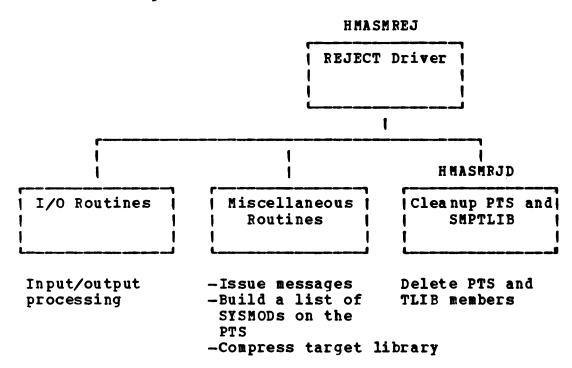


Figure 19. REJECT Module Flow

REJECT MODULES

The following list describes the REJECT modules:

REJECT Modules Purpose

HMASHREJ REJECT Processor Supervises the SYSMOD

REJECT process.

HMASMRJD Cleanup PTS and SMPTLIB Deletes SYSMOD and MCS

entries from the PTS for a specified SYSMOD, and deletes loaded Relfiles.

LIST PROCESSING DESCRIPTION

LIST processing gets control from the Driver routines when a LIST request is entered. The LIST process formats the specified entry and produces a listing on the SMPOUT data set of all data requested from the ACDS, ACRQ, CDS, CRQ, LOG, PTS, and SCDS data sets.

LIST MODULE FLOW

The modules and functions invoked during LIST processing are shown in Figure 20:

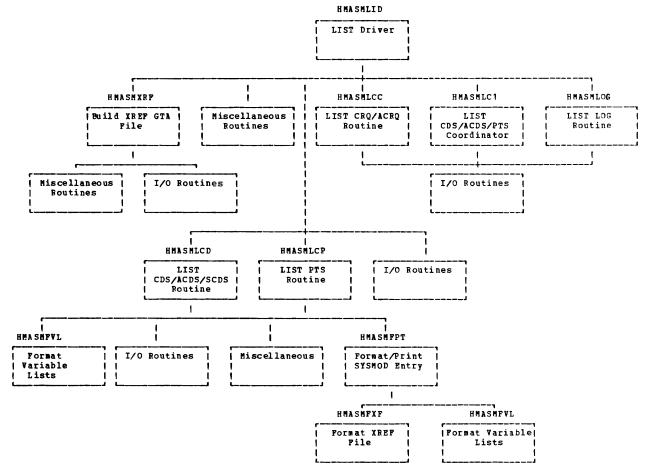


Figure 20. LIST Module Flow

LIST MODULES

The following list describes the LIST modules:

LIST Module	es	Purpose
HMASMFPT	Format/Print SYSMOD Entry	Formats and prints SYSMOD entries in the CDS, ACDS, SCDS and PTS.
HMASMFVL	Format Variable Lists	Formats the variable subentry lists of CDS and PTS entries.
HMASMFXF	Format XREF File	Formats the GTA XREF file.
HMASMLCC	LIST CRQ/ACRO Routine	Lists the CRQ or ACRQ based upon the LIST options specified.
HMASMLCD	LIST CDS/ACDS/SCDS Routine	Produces a formatted list of the CDS, ACDS, and SCDS entries.
HMASMLCP	LIST PTS Routine	Lists the PTS, SYSMOD, and MCS entries.
HMASMLC1	LIST CDS/ACDS/PTS Coordinator	Determines whether a SYSMOD entry should be included in the listing, based on whether the NOAPPLY or NOACCEPT keywords were specified.
HMASMLID	List Driver	Determines the type of listing requested and calls the appropriate LIST routines.
HMAS MLOG	List LOG Routine	Lists the LOG data set.
HMASMXRF	Build XREF GTA File	Builds a GTA file containing records describing the relationship between CDS members that are not explicitly kept in the CDS.

SECTION 4: DIRECTORY

This section contains the following information about each SMP module:

- An alphabetical listing of modules with a brief description of each module, the number of Method of Operation (MO) diagram of which that module is a part, and the area of processing in which it belongs.
- A cross reference listing of the modules that call and are called by each SMF module.

Note: Each object module name, entry point, and control section (CSECT) name are the same as the module name in SMP.

Module	Description	MO #'s	Processing Area
HMASMAAR	APPLY/ACCEPT/RESTORE Driver	2.1,2.7	APPLY/ACCEPT/RESTORE
HMASMALC	DADSM Allocation Interface	2.4	1/0
HMASMAPL	Report Driver	2.1	Report
HMASMAR1	Report SYSMOD Status	2.1	Report
HMASMAR2	Report SYSMOD Summary	2.1	Report
HM AS MAR3	Report SYSMOD Regression	2.1	Report
HMASMAR4	Report Deleted Function	2.1	Report
HMASMASI	Assembler Interface Procedure	2.7	Interface
HMASMASM	JCLIN Assembly Step Processor	2.5	JCLIN
HMASMBDL	BLDL Processor	2.1	Driver
HMASMBUE	Create SCDS BACKUP Entry	2.5	JCLIN
HMASMBUR	Restore CDS from SCDS BACKUP Entry	2.2	JCLIN
HMASMCIL	Relfile Data Set Preprocessor	2.7	Interface
HMASMCMP	Compiler Interface Procedure	2.7	Interface
HMASMCOM	Compress Interface Procedure	2.1,2.3	Interface
HMASMCPI	Copy Interface Procedure	2.7	Interface
HMASMCPL	Completion Determination Procedure	2.7	APPLY/ACCEPT/RESTORE
HMASMCPY	JCLIN Copy Step Processor	2.5	JCLIN
HMASMCP2	SYSMOD Completion Checker	2.7	APPLY/ACCEPT/RESTORE
HMASMCRD	Control Read Routine	2.1,2.3	1/0
HMASMCRW	Write ++IF Data to CRQ	2.7	APPLY/ACCEPT/RESTORE
HMASMDC1	Message Text Declares	None	Miscellaneous
HMASMDC2	Communications Control Area	None	Miscellaneous
HMASMDLE	Delete CSECT/Element/LMOD	2.7	Delete
HMASMDRV	SMP Driver	2.1	Driver

Module	Description	MO #'s	Processing Area
HMASMDR1	Directory In-Storage Determinator	2.1	Driver
HMASMDR2	Rewrite In-Core Directory	2.1	Driver
HMASMDSU	Driver Setup	2.1	Driver
HM AS MDS1	Set CCA Values from PTS SREL	2.1	Driver
HMASMEIS	Entries In-Storage	2.4	1/0
HMASMFPT	Format/Print SYSMOD Entry	2.9	LIST
HMASMFVL	Format Variable Lists	2.9	LIST
HMASMFXF	Format XREF File	2.9	LIST
HM AS MG TA	General Table Access Routine	2.1,2.3, 2.4,2.8, 2.9	Miscellineous
HMASMIDU	MODID Update Processor	2.7	APPLY/ACCEPT/RESTORE
HMASMIO	 I/O Driver	2.1,2.4 2.5,2.7, 2.8,2.9	
HMASMION	I/O Name Determinator	2.4	1/0
HMASMIO1	I/O Entry Length Calculator	1 2.4	1/0
HMASMLCC	LIST CRQ/ACRQ Routine	1 2.9	LIST
HMASMLCD	LIST CDS/ACDS/SCDS Routine	2.9	LIST
HM ASMLCP	LIST PTS Routine	2.9	LIST
HM ASMLC1	LIST CDS/ACDS/PTS Coordinator	2.9	LIST
HMASMLID	LIST Driver	2.1,2.9	LIST
HMASMLKD	JCLIN Link Edit Step Processor	2.5	JCLIN
HMASMLKI	Link Edit Interface Procedure	2.7	Interface
HMASHLOG	LIST LOG Routine	2.9	LIST
HMASMMPD	MCS Parse Driver	2.2 2.2.1, 1 2.2.3, 1 2.3 1 2.3.1	Parse

Module	Description	MO #'s	Processing Area
HMASMMPE	MCS Element Parser	2.3.1	Parse
HMASMMPH	MCS Header Parser	2.3.1	Parse
HMASMMPI	MCS ++IF Parser	2.3.1	Parse
HMASMMPV	MCS ++VER Parser	2.3.1	Parse
HMASMMSG	Message Module	2.4,2.7	Miscellaneous
HMASMPGC	Purge CRQ/ACRQ	2.7	APPLY/ACCEPT/RESTORE
HMASMRCC	SYSMOD Completion Procedure	2.3	RECEIVE
HMASMRCD	Load Relfile Processor	2.3	RECEIVE
HMASMRCF	Flush SYSMOD Procedure	2.3	RECEIVE
HMASMRCL	RECEIVE Summary Report	2.3	RECEIVE
HMASMRDS	Sequential Directory Read	2.4	1/0
HMASMREC	RECEIVE Driver	2.1,2.3	RECEIVE
HMASMREJ	REJECT Driver	2.1,2.8	REJECT
HMASMRJD	Cleanup PTS and SMPTLIB	2.8	REJECT
HMASMSCN	Parse/Scan Procedure	2.1,2.3.1 2.3 2.5,2.6	Parse
HMASMSEC	CDS/ACDS SYSMOD Entry Creator	2.7	Miscellaneous
HMASMSER	STAE Error Routine	2.1	STAE
HMASMSTA	STAE Setup Procedure	2.1	STAE
HM ASMSUB	General Subroutine Module	2.1,2.2	Miscellaneous
HMASMSUP	Add Supersede Entries	2.7	APPLY
HMASMTAD	Create Basic ICT Section Entry	2.2.1, 1	Table

Module	Description	MO #'s	Processing Area
HM ASMTAI	Add ICT Index Entry	2.2.1, 2.2.3, 2.2.4	Table
HMASMTBL	ICT Driver	2.1.2.2	Table
HMASMTBM	ICT Compress	2.2	Table
HM ASMTCL	ICT Cleanup	2.2	Table
HMASMTCR	Requisite Check Driver	2.2.1	Table
HMASMTDD	ICT DD Checker	2.2	Table
HM ASMTD1	ICT Deleted SYSMOD Processor	2.2.1	Table
HMASMTEC	Build PTF Entry From CDS/ACDS/PTS	2.2.1, 1	Table
HMASMTID	ICT MODID LIST Build	12.2.3	Table
HMASMTL1	ICT LMOD Section Build(1)	12.2	Table
HM AS MTL2	(ICT LMOD Section Build(2)	12.2	Table
HMASMTL3	ICT LMOD Section Build LMOD to	12.2	Table
HMASMTMD	ICT MOD Section Build Driver	12.2,2.2.3	Table
HMASMTMJ	Inline JCLIN Procedure	12.2	Table
HMASMTMS	ICT MOD Selection	2.2.3	Table
HMASMTMW	WRKx Data Set Load Procedure	12.2.3	Table
HMASMTM1	ICT MOD Section MOD/ZAP	12.2.3,	Table
HMASMTM2	ICT MOD Section MAC/UPDTE/ MACUPD Entry	12.2.3,	Table
HMASMTM3	ICT MOD Section SRC/SRCUPD Entry	12.2.3, 1	Table

Module	Description	MO #'s	Processing Area
HM AS MT M4	ICT MOD Section ASSEM Entry	2.2.3	Table
HMASMTPA	ICT SYSMOD Selection for APPLY/ACCEPT	2.2.1	Table
HMASMTPC	Complete PTF Entry	2.2.1	Table
HMASMTPD	ICT PTF Section Build Driver	2.2, 2.2.1	Table
HMASMTPL	Build SYSMOD Candidate List	2.2.1	Table
HMASMTPO	Determine Processing Hierarchy of Selected SYSMODs	2.2	Table
HMASMTPR	ICT SYSMOD Selection for RESTORE	2.2,	Table
HMASMTPS	PRE/SUP Check Procedure	2.2.3	Table
HMASMTP2	IFREQ Determination Procedure	2.2.1	Table
HMASMTRM	ICT Module Selection for RESTORE	12.2,2.2.4	Table
HMASMTR1	ICT Single REQ Check Routine	2.2.1	Table
HMASMTSB	Common Table Subroutines	2.2.1, 2.2.2	Table
HMASMUCD	UCLIN Driver	2.1,2.6	UCLIN
HM AS MUC1	UCLIN CDS/ACDS Processor	2.6	UCLIN
HM ASMUC2	UCLIN PTS/STS/MTS Processor	2.6	UCLIN
HM ASMUC3	UCLIN CRQ/ACRQ Processor	2.6	UCLIN
HMASMUC4	UCLIN SCDS Processor	2.6	UCLIN
HMASMUPD	JCLIN Driver	12.1,2.5	JCLIN
HMASMUPI	UPDTE Interface Processor	2.7	Interface
HMASMUXC	User Exit Call Foutine	2.3	RECEIVE
HMASMUXD	User Exit Determination Routine	2.3	RECEIVE
HMASMVLU	Variable Length Update To IOP	2.6	Interface
HMASMXRF	Build XREF GTA File	12.2.4,2.91	LIST
HMASMZAP	ZAP Interface Processor	1 2.7	Interface

External References

	Referenc	ing Modules	Module	Referenced	Modules	
		HMASMCMP	CMPIRTH	·	***	
		HMASMMSG	IDC1PMSG			
		HMASMMSG	IDC1SMSG			
		HMASMMSG	IDC1TMSG			
		HMASMEIS	EISRTN			
		HMASMDRV	HMASMAAR	HMASMCMP	HMASMCOM	HMASMCPI
			i	HMASMCPL	HMASMDLE	HMASMIO
			i i	HMASMLKI	HMASMMSG	HMASMSUB
			i i	HMASMUPI	HMASMZAP	
		HMASMIO	HMASMALC	HMASMMSG		
	HMASMDRV	HMASMSER	HMASMARL	HMASMAR1	HMASMAR2	HMASMAR3
			1	HMASMAR4	HMASMMSG	HMASMTBD
		HMASMARL	HMASMAR1	HMASMGTA	HMASMIO	
		HMASMARL	HMASMAR2	HMASMGTA	HMASMIO	
		HMASMARL	HMASMAR3	HMASMGTA	HMASMIO	
		HMASMARL	HMASMAR4	HMASMGTA	HMASMIO	
		HMASMCMP	HMASMASI	HMASMIO	HMASMMSG	HMASMTIM
		HMASMUPD	HMASMASM	HMASMBUE	HMASMCRD	HMASMIO
		HIRSHUPD	IIICAIICAIIII	HMASMSCN	HIRSHCKD	MINSTITO
HMASMCOM	HMASMDSU	HMASMUC2	HMASMBDL	HMASMMSG		
HMASMASM	HMASMCPY	HMASMDLE	HMASMBUE	HMASMIO	HMASMMSG	HMASMSUB
піскійскій	HMASMLKD	HMASMUPD	IUIINSIIDUEI	HIINSIITO	ппазипа	HILASIISOB
	HMASMCPL	HMASMTMJ		им в смета	UMBCMTO	HMASMMSG
	HIASHCPL	ппазитио	INDADIDUKI	HMASMGTA HMASMSUB	HMASMIO	nnasimsu
		UMRCMIUT		WORD	UMRCMTO	UMBCMMCC
		HMASMLKI	HMASMCIL!	HMASMCPL	HMASMIO	HMASMMSG
				HMASMSUB		UMBANARI
		HMASMAAR	HMASMCMP	CMPIRTN	HMASMASI	HMASMCPL
		UMBONDET		HMASMIO	HMASMSEC	
	HMASMAAR	HMASMREJ	HMASMCOM	HMASMBDL	HMASMCPL	HMASMIO
				HMASMMSG	HMASMSEC	
		HMASMAAR	HMASMCPI	HMASMCPL	HMASMIO	HMASMMSG
		UVIGNAVD		HMASMSEC	HMASMSUB	HMASMTIM
HMASMAAR	HMASMCIL	HMASMCMP	HMASMCPL	HMASMBUR	HMASMCP2	HMASMCRW
HMASMCOM	HMASMCPI	HMASMDLE	!!!	HMASMIDU	HMASMIO	HMASMMSG
HMASMLKI	HMASMSER	HMASMUPI	!!!	HMASMPGC	HMASMRJD	HMASMSEC
		HMASMZAP	!!!	HMASMSUB	HMASMSUP	HMASMTSB
			!!!	NG2FMDCK	NG2IRQCK	NG 2 PRECK
				NG 2 REQCK		
		HMASMUPD	HMASMCPY	HMASMBUE	HMASMCRD	HMASMIO
			! !	HMASMSCN		
		HMASMCPL	HMASMCP2			
HMASMASM	HMASMCPY	HMASMDRV	HMASMCRD	HMASMIO	HMASMUXC	
HMASMLCP	HMASMLKD	HMASMMPI	1			
HMASMREC	HMASMTMD	HMASMTMJ	į I			
HMASMTMW	HMASMTPC	HMASMUC1	1 1			
HMASMUC2	HMASMUC3	HMASMUC4	1 1			
		HMASMUPD	1 1			
		HMASMCPL	HMASMCRW	HMASMGTA	HMASMIO	HMASMVLU
		HMASMDSU	HMASMDC2			
		HMASMAAR	HMASMDLE	HMASMBUE	HMASMCPL	HMASMGTA
					CMPIRTN	-HMASMDLE

External References Referencing Modules Module Referenced Modules

· · · · · · · · · · · · · · · · · · ·			HMASMDLE	HMASMIO	HMASMMSG	HMASMSEC
			1 !	HMASMXRF		
			HMASMDRV	HMASMAAR	HMASMARL	HMASMCRD
			1 1	HMASMDR1	HMASMDR2	HMASMDSU
			1 1	HMASMGTA	HMASMIO	HMASMLID
			1	HMASMMSG	HMASMREC	HMASMREJ
			1 1	HMASMSCN	HMASMSTA	HMASMSUB
			1 1	HMASMTBL	HMASMUCD	HMASMUPD
			1 1	HMASMUXC		
		HMASMDRV	HMASMDR1	HMASMIO	HMASMMSG	
	HMASMDRV	HMASMSER	HMASMDR2	HMASMIO	HMASMMSG	
		HMASMDRV	HMASMDSU	HMASMBDL	HMASMDC2	HMASMDS 1
			1	HMASMIO	HMASMMSG	HMASMSCN
HMASMDSU	HMASMUC1	HMASMUC2	HMASMDS1	HMASMIO	HMASMMSG	HMASMSUB
		HMASMIO	HMASMEIS	EISRTN	HMASMGTA	HMASMIO
			1	HMASMMSG		
	HMASMLCD	HMASMLCP	HMASMFPT	HMASMFVL	HMASMFXF	HMASMIO
HMASMFPT	HMASMLCD	HMASMLCP	HMASMFVL	HMASMIO		
HMASMFPT	HMASMLCD	HMASMLID	HMASMFXF	HMASMGTA	HMASMIO	
HMASMAR1	HMASMAR2	HMASMAR3	HMASMGTA	HMASMMSG		
HMASMAR4	HMASMBUR	HMASMCRW	1			
HMASMDLE	HMASMDRV	HMASMEIS	1			
HMASMFXF	HMASMLCC	HMASMLID	1			
HMASMLKD	HMASMPGC	HMASMRCC	1 1			
HMASMRCD	HMASMRCF	HMASMRCL	1			
HMASMREC	HMASMREJ	HMASMTCL	1			
HMASMTCR	HMASMTD1	HMASMTL1	1 1			
HMASMTMJ	HMASMTM1	HMASMTM2	1 1			
HMASMTM3	HMASMTM4	HMASMTPA	1 1			
HMASMTPC	HMASMTPL	HMASMTPR	1			
HMASMTP2	HMASMTRM	HMASMUC3	1			
		HMASMXRF	1 1			
		HMASMCPL	HMASMIDU	HMASMIO	HMASMMSG	HMASMTPS
			1 1	HMASMVLU		
HMASMAAR	HMASMAR1	HMASMAR2	HMASMIO	HMASMALC	HMASMEIS	HMASMION
HMASMAR3	HMASMAR4	HMASMASI	1 1	HMASMIO1	HMASMMSG	HMASMRDS
HMASMASM	HMASMBUE	HMASMBUR	1 1			
HMASMCIL	HMASMCMP	HMASMCOM	1			
HMASMCPI	HMASMCPL	HMASMCPY	1 1			
HMASMCRD	HMASMCRW	HMASMDLE	1			
HMASMDRV	HMASMDR1	HMASMDR2	1 1			
HMASMDSU	HMASMDS 1	HMASMEIS	1 1			
HMASMFPT	HMASMFVL	HMASMFXF	1 1			
HMASMIDU	HMASMLCC	HMASMLCD	1			
HMASMLCP	HMASMLC1	HMASMLID	1 1			
HMASMLKD	HMASMLKI	HMASMLOG	1 1			
HMASMMPI	HMASMMSG	HMASMPGC	į į			
HMASMRCC	HMASMRCD	HMASMRCF	1 !			
HMASMRCL	HMASMRDS	HMASMREC	1 !			
HMASMREJ	HMASMRJD	HMASMSEC	!!!!			
HMASMSUP	HMASMTBL	HMASMTCR	1 1			

External References

			nal Refere		_	
	Referenc	ing Modules	Module	Referenced	Modules	
HMASMTD1	HMASMTL 1	HMASMTL2	HMASMIO	***************************************	· · · · · · · · · · · · · · · · · · ·	
HMASMTMD	HMASMTMJ	HMASMTMS	1 1			
HMASMTMW	HMASMTM1	HMASMTM2	i i			
HMASMTM3	HMASMTM4	HMASMTPA	i i			
HMASMTPC	HMASMTPL	HMASMTPO	i i			
HMASMTPR	HMASMTP2	HMASMTRM	i i			
HMASMTSB	HMASMUC1	HMASMUC2	iii			
HMASMUC3	HMASMUC4	HMASMUPD	i i			
HMASMUPI	HMASMXRF	HMASMZAP	i			
IIIIASIIOI I	IIIIADIIAKI	HMASMIO	HMASMION	HMASMSUB		
		HMASMIO	HMASMIO1	mikamada		
		HMASMLID	HMASMLCC	HMASMGTA	HMASMIO	
		HMASMLID	HMASMLCD	HMASMFPT	HMASMFVL	HMASMFXF
		HIIKSHITT	I	HMASMIO	IIIIASIII VL	HIIKSHITAT
		HMASMLID	HMASMLCP	HMASMCRD	HMASMFPT	HMASMFVL
		HIIKSIITTD	Innanier	HMASMIO	HMASMSCN	ULINDIILAT
		HMASMLID	HMASMLC1	HMASMIO	HIMBIISCA	
		HMASMDRV	HMASMLID	HMASMFXF	HMASMGTA	HMASMIO
		HIRSHDKV	IUIIVOLITILI		HMASMLCD	
			· .	HMASMLCC	HMASMLOG	HMASMLCP
			: :	HMASMLC1 HMASMXRF	HIMSHILOG	HMASMSUB
		UMBCMUDD	LUMBOMINDI		UMACMODD	UMACMONA
		HMASMUPD	HMASMLKD	HMASMBUE	HMASMCRD	HMASMGTA Keyrout
		UMBCMBBD	I UMACMIUTI	HMASMIO	HMASMSCN	
		HMASMAAR	HMASMLKI	HMASMCIL	HMASMCPL	HMASMIO
		UMACMITA	LUMBENTOCI	HMASMMSG	HMASMSEC	HMASMTIM
UMRCMMDU	UMACMDEC	HMASMLID	HMASMLOGI	HMASMIO	HMASMMSG	UMACMMDT
HMASMMPH	HMASMREC	HMASMTMD	HMASMMPDI	HMASMMPE	HMASMMPH	HMASMMPI
	HMASMTMJ	HMASMTPC	LUMBOMMDEL	HMASMMPV	HMASMMSG	HMASMSCN
		HMASMMPD	HMASMMPE	HMASMMSG	HMASMSCN	UMBCMCGN
		HMASMMPD	HMASMMPH	HMASMMPD	HMASMMSG	HMASMSCN
		HMASMMPD	HMASMMPI	HMASMCRD	HMASMIO	HMASMMSG
		UMACMMDD	LUMBCMMDUL	HMASMSCN	HMASMVLU	UMACMUTU'
UMBCMBBD	UMACMATO	HMASMMPD HMASMARL	HMASMMPV	HMASMMSG	HMASMSCN	HMASMVLU
HMASMAAR	HMASMALC HMASMBDL		HMASMMSG	DC1PMSG	DC1SMSG	DC1TMSG
HMASMASI		HMASMBUE	! !	HMASMIO		
HMASMBUR	HMASMCIL	HMASMCOM	! !			
HMASMCPI	HMASMCPL	HMASMDLE	: :			
HMASMDRV	HMASMDR1	HMASMDR2	; ;			
HMASMDSU	HMASMDS 1	HMASMEIS	: :			
HMASMGTA	HMASMIDU	HMASMIO	;			
HMASMLKI	HMASMLOG	HMASMMPD	; ;			
HMASMMPE	HMASMMPH	HMASMMPI	: :			
HMASMMPV	HMASMRCC	HMASMRCD	: :			
HMASMRCF	HMASMRCL	HMASMRDS	1 !			
HMASMREC	HMASMREJ	HMASMSER	! !			
HMASMSTA	HMASMSUB	HMASMTAD				
HMASMTAI	HMASMTBL	HMASMTCL	! !			
HMASMTCR	HMASMTDD	HMASMTD1	! !			
HMASMTL1	HMASMTL2	HMASMTMD	! !			
HMASMTMJ	HMASMTMS	HMASMTM1				
HMASMTM2	HMASMTM3	HMASMTM4				
					UMBCMIO	

HMASMIO -HMASMMSG

External References
Referencing Modules Module Referenced Modules

Referenc	ing Modules	Module	Referenced	Modules	
HMASMTPC	HMASMTPL	HMASMMSG			
HMASMTPR	HMASMTP2	1 1			
HMASMTSB	HMASMUC1	1 1			
HMASMUC3	HMASMUC4	1 1			
HMASMUPI	HMASMUXC	1 1			
HMASMVLU	HMASMZAP	1 1			
	HMASMCPL	HMASMPGC	HMASMGTA	HMASMIO	
	HMASMREC	HMASMRCC	HMASMGTA	HMASMIO	HMASMMSG
		1 1	HMASMRCF	HMASMSUB	
	HMASMREC	HMASMRCD	HMASMGTA	HMASMIO	HMASMMSG
		1 1	HMASMSUB		
HMASMRCC	HMASMREC	IHMASMRCFI	HMASMGTA	HMASMIO	HMASMMSG
		1	HMASMSUB		
HMASMREC	HMASMSER	HMASMRCL		HMASMIO	HMASMMSG
xbxb		1 1			
	OTMRAMH	INMACMBDSI		BSMMSEMH	
					HMASMIO
	HIIKSHDKV	I			HMASMRCC
		; ;			HMASMRCL
		1 1			HINSHKUL
	UMACMBBU	LUMBEMBET			UMBCMTO
	HMASMURV	IHMASMKEUI			HMASMIO
					HMASMVLU
				HMASMSUB	
		IHMASMSCNI	USER		
		!!!			
		!!!			
HMASMMPV	HMASMREC	!			
HMASMUC1	HMASMUC2	1			
HMASMUC4	HMASMUPD	1 1			
	HMASMZAP	1 1			
HMASMCOM	HMASMCPI	HMASMSECI	HMASMIO	HMASMVLU	
HMASMDLE	HMASMLKI	1 1			
HMASMTMJ	HMASMUPI	1 1			
	HMASMZAP	1 1			
	HMASMSTA	HMASMSER	HMASMARL	HMASMCPL	HMASMDR2
		1 1	HMASMMSG	HMASMRCL	
	HMASMDRV	HMASMSTA	HMASMMSG	HMASMSER	
HMASMBUE	HMASMBUR	HMASMSUB	HMASMMSG	SUBRTN	
HMASMCPI		i i			
		i i			
		i i			
		i i			
		i i			
		i i			
		HMASMSHD	HMASMTO	HMASMVIJI	
HMASMTT. 1					
		i i			
HMASMTEC			HMASMMSG		
HMASMTL3	HMASHTID		HILABIHIS		
	HMASMTPC HMASMTPR HMASMTPR HMASMTPR HMASMTPR HMASMUC3 HMASMUC1 HMASMCC HMASMRCC HMASMCPY HMASMCPY HMASMCPY HMASMUC1 HMASMUC4 HMASMUC4 HMASMUC4 HMASMCPI HMASMCPI HMASMCPI HMASMCCC HMASMCCC HMASMTD1 HMASMTCC	HMASMTPR HMASMTP2 HMASMTSB HMASMUC1 HMASMUC3 HMASMUC4 HMASMUPI HMASMUXC HMASMVLU HMASMZAP HMASMREC HMASMREC HMASMREC HMASMREC HMASMREC HMASMREC HMASMREC HMASMOPU HMASMOPU HMASMCPL HMASMCPU HMASMCPU HMASMCPU HMASMCPU HMASMCPU HMASMCPU HMASMCPU HMASMUC1 HMASMUC2 HMASMUC4 HMASMUC2 HMASMUC4 HMASMUPD HMASMCPU HMASMTPU	HMASMTPC HMASMTPL HMASMMSG HMASMTPR HMASMTP2 HMASMTP2 HMASMTP1 HMASMTP1 HMASMTP1 HMASMTP1 HMASMUC1 HMASMUC1 HMASMUC2 HMASMVLU HMASMREC HMASMCP1 HMASMC	HMASMTPC HMASMTPL HMASMMSG HMASMTPR HMASMTPZ	HMASMTPC HMASMTPT HMASMTPT HMASMTPT HMASMTPT HMASMUC3 HMASMUC4 HMASMUC4 HMASMUC4 HMASMUC4 HMASMZAP HMASMCPL HMASMZAP HMASMCPL HMASMRCC HMASMRCC HMASMGTA HMASMSB HMASMCPL HMASMRCC HMASMRCC HMASMGTA HMASMSB HMASMCPL HMASMRCC HMASMRCF HMASMGTA HMASMSB HMASMCC HMASMRCF HMASMGTA HMASMSB HMASMCC HMASMRCF HMASMGTA HMASMSB HMASMOO HMASMSB HMASMSB HMASMOO HMASMSB HMASMSB HMASMOO HMASMSB H

HMASMMSG-HMASMTAI

External References

	Referenc	ing Modules	Module	Referenced	Modules	
HMASMTM4	HMASMTPC HMASMTP2	HMASMTPR HMASMTRM	HMASMTAI			
HMASMARL	HMASMTBL	HMASHTRN	HMASMTBD			
HIRSHARL	HIIKSIIIDD	HMASMDRV	HMASMTBL	HMASMIO	HMASMMSG	HMASMSUB
		IIIIASIIDKY	INITABILIBLE	HMASMTBD	HMASMTBM	HMASMTCL
			1 1	HMASMTDD	HMASMTL1	HMASMTL2
			I I			
				HMASMTL3	HMASMTMD	HMASMTMJ
		UMBCMERT		HMASMTPD	HMASMTPO	HMASMTRM
		HMASMTBL	HMASMTBM	!!W1@W@#1		
		HMASMTBL	HMASMTCL	HMASMGTA	HMASMMSG	HMASMSUB
HMASMTMD	HMASMTMJ	HMASMTPD	HMASMTCR	HMASMGTA	HMASMIO	HMASMMSG
				HMASMTR1		
		HMASMTBL	HMASMTDD	HMASMMSG		
		HMASMTPA	HMASMTD1	HMASMGTA	HMASMIO	HMASMMSG
			ļ ļ	HMASMSEC	HMASMTAD	HMASMTAI
			ļ l	HMASMTEC	HMASMTSB	
HMASMTD1	HMASMTPC	HMASMTPR	HMASMTEC	HMASMTAI		
HMASMTM1	HMASMTM2	HMASMTM3	HMASMTID	HMASMTAI		
		HMASMTRM	1 1			
HMASMASI	HMASMCPI	HMASMLKI	HMASMTIM			
	HMASMUPI	HMASMZAP				
		HMASMTBL	HMASMTL1	HMASMGTA	HMASMIO	HMASMMSG
			1	HMASMTAD	HMASMTAI	
		HMASMTBL	HMASMTL2	HMASMIO	HMASMMSG	
		HMASMTBL	HMASMTL3	HMASMTAI		
		HMASMTBL	HMASMTMD	HMASMCRD	HMASMIO	HMASMMPD
			i	HMASMMSG	HMASMSCN	HMASMSUB
			iiii	HMASMTAD	HMASMTAI	HMASMTCR
			i i	HMASMTMS	HMASMTMW	HMASMTM1
			i i	HMASMTM2	HMASMTM3	HMASMTM4
			i i	HMASMTSB		
		HMASMTBL	HMASMTMJ	HMASMBUR	HMASMCRD	HMASMGTA
			1 1	HMASMIO	HMASMMPD	HMASMMSG
			i i	HMASMSEC	HMASMSUB	HMASMTCR
			iiii	HMASMUPD		
		HMASMTMD	HMASMTMS	HMASMIO	HMASMMSG	HMASMTPS
		HMASMTMD	HMASMTMW	HMASMCRD	HMASMIO	xsiiii s
HMASMTMD	HMASMTM4	HMASMTRM	HMASMTM1	HMASMGTA	HMASMIO	HMASMMSG
HIIKSIIIID	HIIASIIIII	HINSHIKH	Innasimi	HMASMTAI	HMASMTID	Deminskiin
	UMBCMTMD	им в смтъм	I UMBCMTMOI			им в сммсс
	HMASMTMD	HMASMTRM	HMASMTM2	HMASMGTA	HMASMIO HMASMTID	HMASMMSG HMASMTM4
	HMASMTMD	HMASMTRM	HMASMTM3	HMASMTAI		HMASMMSG
	HINSHIID	HHASHIKH	IULIAPLITUS			HMASMTM4
UMECHEND	UMBCMEM?	UMBCMMMO	I III CMMMA I	HMASMTAI		
HMASMTMD	HMASMTM2	HMASMTM3	HMASMTM4	HMASMGTA	HMASMIO	HMASMMSG
		HMASMTRM		HMASMTAD	HMASMTAI	HMASMTM1
		HMASMTPD	HMASMTPA	HMASMGTA	HMASMIO	HMASMMSG
			1 1	HMASMTD1	HMASMTPC	HMASMTPL
				HMASMTP2		
		HMASMTPA	HMASMTPC			HMASMIO
			1 1	HMASMMPD		HMASMTAD
			1 1	HMASMTAI	HMASMTEC	
					 Tamasmtat	-HMASMTPC

HMASMTAI-HMASMTPC

External References
Referencing Modules Module Referenced Modules

	Keletenc	ing Modules	Module	Referenced	woantes	
		HMASMTBL	HMASMTPD	HMASMTCR	HMASMTPA	HMASMTPR
		HMASMTPA	HMASMTPL	HMASHICA	HMASMIO	HMASHMSG
		HIIKSIIIFK	IUUNSUIFEI		HIRSHIO	HIRSHIIS
		UMACMEDI	IUMACMERAL	HMASMTSB	UMACMMCC	
		HMASMTBL	HMASMTPO	HMASMIO	HMASMMSG	UMBCMMCC
		HMASMTPD	HMASMTPR	HMASMGTA	HMASMIO	HMASMMSG
			! !	HMASMTAD	HMASMTAI	HMASMTBD
			1	HMASMTEC	HMASMTSB	
	HMASMIDU	HMASMTMS	HMASMTPS			
		HMASMTPA	HMASMTP2	HMASMGTA	HMASMIO	HMASMMSG
			1	HMASMTAI	HMASMTSB	
		HMASMTBL	HMASMTRM	HMASMGTA	HMASMIO	HMASMMSG
			1 !	HMASMTAD	HMASMTAI	HMASMTID
			ļ	HMASMTM 1	HMASMTM2	HMASMTM3
			!	HMASMTM4	HMASMTSB	HMASMXRF
		HMASMTCR	HMASMTR1			
HMASMCPL	HMASMTD1	HMASMTMD	HMASMTSB	HMASMIO	HMASMMSG	TSBRTN
HMASMTPA	HMASMTPL	HMASMTPR	1 1			
	HMASMTP2	HMASMTRM	1 1			
		HMASMDRV	HMASMUCD	HMASMUC 1	HMASMUC2	HMASMUC3
			1	HMASMUC4		
		HMASMUCD	HMASMUC1	HMASMCRD	HMASMDS 1	HMASMIO
			1 1	HMASMMSG	HMASMSCN	
		HMASMUCD	HMASMUC2	HMASMBDL	HMASMCRD	HMASMDS 1
			1 1	HMASMIO	HMASMMSG	HMASMSCN
			1 1	HMASMVLU		
		HMASMUCD	HMASMUC3	HMASMCRD	HMASMGTA	HMASMIO
			1 1	HMASMMSG	HMASMSCN	HMASMVLU
		HMASMUCD	HMASMUC4	HMASMCRD	HMASMIO	HMASMMSG
			1 1	HMASMSCN		
	HMASMDRV	HMASMTMJ	HMASMUPD	HMASMASM	HMASMBUE	HMASMCPY
			1 1	HMASMCRD	HMASMIO	HMASMLKD
			1	HMASMMSG	HMASMSCN	
		HMASMAAR	HMASMUPI	HMASMCPL	HMASMIO	HMASMMSG
			1	HMASMSEC	HMASMTIM	
	HMASMCRD	HMASMDRV	HMASMUXC	HMASMMSG	HMASMUXD	SMPEXIT
		HMASMUXC	HMASMUXD			
HMASMCRW	HMASMIDU	HMASMMPI	HMASMVLU	HMASMMSG		
HMASMMPV	HMASMREJ	HMASMSEC	i i			
HMASMSUP	HMASMUC2	HMASMUC3	i i			
HMASMDLE	HMASMLID	HMASMTRM	HMASMXRF	HMASMGTA	HMASMIO	HMASMSUB
		HMASMAAR	HMASMZAP	HMASMCPL	HMASMIO	HMASMMSG
			i i	HMASMSCN	HMASMSEC	HMASMTIM
		HMASMLKD	KEYROUT			
		HMASMCPL	NG2FMDCK			
		HMASMCPL	NG2IRQCK			
		HMASMCPL	NG2PRECK			
		HMASMCPL	NG2REQCK			
		HMASMUXC	SMPEXIT			
		HMASMSUB	SUBRTN			
		HMASMTSB	TSBRTN			
		HMASMSCN	USER			

HMASMTPD-USER

External References

Referencing Modules Module Referenced Modules HMASMCCA | WORD |

WORD -WORD

SECTION 5: DATA AREAS

This section contains the following information about the SMP data areas:

A description and record layout of the SMP data area:

```
CCA
             Common Communications Area
             HMASMCRD Parameter List
CRP
GTP
             HMASMGTA Parameter List
ICT
             Internal Control Table
                 base section
                 SYSMOD section
                 Module Section
                 Load Module Section
                 Variable section
IOP
             Input/Output Parameter
                 CDS/SCDS Assembly Entry
                 CDS/SCDS Load Module Entry
                 CDS/ACDS/SCDS Macro Entry
                 CDS/ACDS/SCDS Source Entry
                 CDS/ACDS/SCDS Module Entry
                 CDS/SCDS DLIB Entry
                 CDS/ACDS/SCDS SYSTEM Entry
                 CDS/SCDS/ACDS/PTS SYSMOD Entry
                 CRQ/ACRQ Data Set Mapping
                 PTS Data Set Mapping
                 PDS BLDL Mapping
MCB
             Modification Control Buffer
             Message Generator Parameter
MGP
             Output Mapping for Write Operations
PRL
RDP
             Sequential Directory Read Parameter
             Scan Parameter List
SCP
SET
             Select/Exclude Table
SPL
             General Subroutine Parameter
             TSB Parameter List Mapping
TSL
                 Search ICT for SYSMOD-ID
                 ICT Index Search
                 Get CDS/ACDS/PTS SYSMOD Entry
                 Search ICT/CDS/ACDS for SYSMOD-ID
                 Search for IOP Subentry
                 Issue message HMA370
UXP
             User Exit Parameter List
```

<u>Description</u>: SMP Common Communication Area

Macro ID: HMASMCCA CREATED BY: HMASMDRV

How to Find: Pointed to by Register 11.

<u>Function</u>: This area is used for communication among SMP modules. It contains information about the current SMP run (buffer and BLDL addresses, record counts, return codes, parameters,

data storage areas, etc.)

OFFSE	ETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	371	HMASMCCA	
0	(0)	CHARACTER		CCAID	EYE-CATCHER BYTES
4	(4)	CHARACTER	136		DATASET BUFFER DATA
4	(4)		4	CCACBFIA	ADDRESS OF CDS/ACDS
8	(8)				ADDRESS OF CDS/ACDS OUTPUT BUFFER
12	(C)	A-ADDRESS	4	CCAVBFIA	ADDRESS OF SCDS INPUT BUFFER
16	(10)				ADDRESS OF SCDS OUTPUT BUFFER
20	(14)		4		ADDRESS OF PTS/MTS/STS INPUT BUFFER
24	(18)				ADDRESS OF PTS/MTS/STS OUTPUT BUFFER
28	(1c)	A-ADDRESS	4	CCAQBFIA	ADDRESS OF CRQ INPUT BUFFER
32	(20)		4	CCAQBFOA	ADDRESS OF CRQ OUTPUT BUFFER
36	(24)			CCAWBFIA	ADDRESS OF WRK1/WRK2/WRK3 INPUT BUFFER
40				CCAWBFOA	WRK1/WRK2/WRK3 OUTPUT BUFFER

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
44 (2C)	A-ADDRES	s 4	CCATBFIA	ADDRESS OF TEXT LIBRARY INPUT BUFFER
48 (30)	A-ADDRES	s 4	CCA4BFIA	ADDR OF WK4 INPUT BFR
52 (34)	A-ADDRES	s 4	CCA4BFOA	ADDR OF WK4 OUTPT BFR
56 (38)	SIGNED	4		UNUSED
60 (3C)	SIGNED	4	CCACBFSZ	COMBINED GETMAIN SIZE FOR CCACBFIA/CCACBFOA
64 (40)		4	CCAVBFSZ	COMBINED GETMAIN SIZE FOR CCAVBFIA/CCAVBFOA
68 (44)			CCAPBFSZ	COMBINED GETMAIN SIZE FOR CCAPBFIA/CCAPBFOA
72 (48)	SIGNED	4	CCAQBFSZ	COMBINED GETMAIN SIZE FOR CCAQBFIA/CCAQBFOA
76 (40)	SIGNED	4	CCAWBFSZ	COMBINED GETMAIN SIZE FOR CCAWBFIA/CCAWBFOA
80 (50)	SIGNED	4	CCATBFSZ	GETMAIN SIZE FOR CCATBFIA
84 (54)		4	CCA4BFSZ	COMBINED SIZE FOR CCA4BFIA/CCA4BFOA
88 (58)		4		FUTURE USE
92 (50)	SIGNED	4		FUTURE USE
96 (60)	SIGNED	2	CCACBFMX	MAX RCDS IN CDS BLK
98 (62)	SIGNED	2	CCAABFMX	MAX RCDS IN ACDS BLK
100 (64)	SIGNED	2	CCAVBFMX	MAX RCDS IN SCDS BLK
102 (66)		2	CCAPBFMX	MAX RCDS IN PTS BLK
104 (68)			CCAMBFMX	MAX RCDS IN MTS BLK
106 (6A)	SIGNED		CCASBFMX	
108 (6C)			CCAQBFMX	
110 (6E)			CCAXBFMX	
112 (70)	SIGNED	2		MAX RCDS IN WRK1 BLK
	SIGNED	2	CCA2BFMX	MAX RCDS IN WRK2 BLK
116 (74)	SIGNED	2	CCA3BFMX	MAX RCDS IN WRK3 BLK
118 (76)	SIGNED	2	CCA4BFMX	MAX RCDS IN WRK4 BLK

<u>offsets</u>	TYPE	LENGTH	NAME	DESCRIPTION
120 (78) 122 (7A)		2 2	CCATBFMX	MAX RCDS IN TXTLB BLK FUTURE USE
	SIGNED SIGNED	2 2		FUTURE USE FUTURE USE
128 (80)	A-ADDRESS	5 4	CCADSAD	PTR TO CCADSIDA
132 (84)	A-ADDRESS	3 4	CCATPAD	PTR TO CCATYPEA
1	1	; 4	CCAFLAG7 CCACDSP CCAACDSP CCASCDSP CCASTSP CCAMTSP CCASTSP CCACRQP CCAACRQP CCAWK1P CCAWK2P CCAWK3P CCAWK5P CCAUT1P CCAUT2P CCAUT1P CCAUT2P CCAUT3P CCATLBP CCAPTFP CCAJCLP CCALISTP CCASLBP	DATA SET PRESENT BITS CDS DD PRESENT ACDS DD PRESENT SCDS DD PRESENT PTS DD PRESENT MTS DD PRESENT STS DD PRESENT CRQ DD PRESENT ACRQ DD PRESENT WRK1 DD PRESENT WRK2 DD PRESENT WRK2 DD PRESENT WRK3 DD PRESENT WRK4 DD PRESENT SYSUT1 DD PRESENT SYSUT1 DD PRESENT SYSUT2 DD PRESENT SYSUT3 DD PRESENT SMPTLIB DD PRESENT SMPTLIB DD PRESENT SMPTLIB DD PRESENT SMPJCLIN DD PRESENT SMPJCLIN DD PRESENT SMPLIST DD PRESENT SMPRPT DD PRESENT SMPRPT DD PRESENT SMPRPT DD PRESENT
140 (8C)	CHARACTE	8 8	CCAFIOP	IOP DATA
140 (8C)	A-ADDRESS	; 4		ADDR OF GENERAL IOP
144 (90)	A-ADDRESS		CCAPESIZ	SIZE OF THE IOP
148 (94)	CHARACTER	40	CCAFSYS	SYSTEM ENTRY DATA
148 (94)	A-ADDRESS	; 4	CCAIOPCS	ADDR OF CDS SYS IOP
152 (98)	A-ADDRESS	4	CCAIOPAS	ADDR OF ACDS SYS IOP
156 (9C) 158 (9E)			CCAPGLEN CCAPEMAX	SYSOUT PAGE LENGTH MAX NUMBER LIST ELEMENTS

	OFFSE	<u>rs</u>	TYPE	LENGTH	NAME	DESCRIPTION
	160	(AO)	CHARACTE	R 4	CCASREL	SYSTEM/RELEASE INFORMATION
_	160	(AO)	CHARACTE	R 4	CCACSREL	CDS SREL DATA
_	164	(A4)	CHARACTE	R 4	CCAASREL	ACDS SREL DATA
_					CCANUCID	DEFAULT NUCLEUS ID CHARACTER
	169	(A9)	BITSTRING	g 1	CCAFLAGA	
					CCACSYSF	
		.1.			CCAASYSF	
		1			CCAPSYSF	PTS SYSTEM ENTRY FND
			1 1111			UNUSED
	170	(AA)	CHARACTE	R 2		FUTURE USE
_	172	(AC)	CHARACTE	R 8	CCACDSID	CDS SYSTEM ID
_	180	(B4)	CHARACTE	R 8	CCAACDID	ACDS SYSTEM ID
_	188	(BC)	CHARACTE	R 4	CCAFSTA	STAE DATA
	188	(BC)	A-ADDRESS	5 4	CCARVAD	STAE RECOVERY WORK AREA ADDR
	192	(CO)	CHARACTE	R 16	CCAFICT	ICT DATA
_	192	(CO)	A-ADDRES:	5 4	CCAICT	ADDRESS OF THE ICT
_	196	(C4)	A-ADDRES:		CCAICPTF	ADDRESS OF ICT PTF TABLE
_	200	(C8)	A-ADDRESS	5 4	CCAICMOD	ADDRESS OF ICT MODULE
	204	(CC)	A-ADDRESS	5 4	CCAICLMD	ADDRESS OF ICT LOAD MOD TABLE
	208	(DO)	CHARACTE	R 16	CCAFPGM	INVOKED PROGRAM DATA
_	208	(DO)	A-ADDRESS		CCABLDLP	PTR TO BLDL LIST
_	212	(D4)	A-ADDRESS			ADDR OF PGM BLDL LIST IN HMASMDRV
	216				CCASPDCB	ADDRESS OF DCB FOR IOSUP
	220		A-ADDRESS	\$ 4		ADDRESS OF COMPRESS DD NAME LIST
_			CHARACTE	R 20	CCAFGTP	GTP PTRS
						

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
224 (E0)	A-ADDRES	s 4	CCASEGTP	PTR TO GTP FOR SET
224 (E0)	A-ADDRES	s 4	CCASETAD	PTR TO GTP FOR SET
228 (E4)	A-ADDRES	s 4	CCAGTP1	ADDR OF WORK GTP1
232 (E8)	A-ADDRES	s 4	CCAGTP2	ADDR OF WORK GTP1
236 (EC)	A-ADDRES		CCAGTP3	ADDR OF WORK GTP1
240 (F0)	A-ADDRES	s 4	CCAIFGTP	ADDR IF IF DATA GTP
244 (F4)	CHARACTE	R 20		FUTURE USE
244 (F4)	A-ADDRES	s 4		FUTURE USE
248 (F8)	A-ADDRES	s 4		FUTURE USE
252 (FC)	A-ADDRES	s 4		FUTURE USE
256 (100)	A-ADDRES	s 4	CCATBLPA	TBL PARM LIST ADDRESS
260 (104) 262 (106)		2 2		FUTURE USE FUTURE USE
264 (108)			CCAFFINC	SMP FUNCTION DATA
				FUNCTION REQUESTED
272 (110)	BITSTRIM	G 3	CCAFLAG1 CCAREC	CURRENT SMP VERB RECEIVE MODE
			CCAAPPLY	APPLY MODE
1			CCAACCPT	ACCEPT MODE
	1		CCAREJ	REJECT MODE
	. 1		CCARES	RESTORE MODE
	1		CCAUPDJ	UPDATE CDS JCL MODE
	1 .		CCAUPDU	UPDATE CDS UCL MODE
	1		CCALIST	LIST REQUEST
			CCACNV	CONVERT FUNCTION
			CCALOG CCARESET	LOG FUNCTION RESETRC FUNCTION
	 1 1111		CCAKESEI	RESEIRC FURCIION
	1 1111			UNUSED
	BITSTRIN	G 1	CCAFLAG2	SPEC PROCESS FLAGS
		,	CCANCPTF	PTF TO NUCLEUS FOUND
.1.			CCASVCLB	SVCLIB AFFECTED RUN IOSUP
1	• • • • •		CCATERM	TERMINATE SMP AT END OF VERB
	1		CCACHECK	RUNNING IN CHECK MODE UNUSED
	1 .		CCAEOFNC	END OF FUNCT PROCESS

OFFS	ETS	TYPE	LENGTH	<u>NAME</u>	DESCRIPTION
	• • •	1		CCAEOSMP	END OF SMP PROCESS
276	(114)	CHARACTE	R 2	CCAFPROC	PROCESSOR FLAGS
276	(114)	BITSTRIN	G 2	CCAFLAG3	SMP PROCESSOR FLAGS
	1.			CCAUPDP	UPDATES ARE PRESENT
	. 1 .			CCAASIP	ASSEMBLIES PRESENT
	'	l		CCACOPYP	COPIES ARE PRESENT
		1		CCALINKP	LINK EDITS ARE PRESENT
		1		CCAZAPP	S/ZAPS ARE PRESENT
		1		CCACMPRS	COMPRESS OPTION
					SPECIFIED
		1 .		CCADELP	SYSMODS WITH DEL PRES
		1		CCAICTOK	ICT BUILT COMPLETLY
				CCADISRQ	DIS TO LOAD IS REQ
	. 1 .			CCARGNP	SYSMODS WITH REGRESSIONS
					ARE PRESENT IN THE ICT
	1	11 1111			UNUSED
278	(116)	CHARACTE	R 3	CCAFDIS	DIS DATA FLAGS
278	(116)	BITSTRIN	G 1	CCAFLAG4	DIS FLAGS(INPUT MODE)
	1			CCACDSIS	CDS DIR FOR INPUT
				CCAACDIS	ACDS DIR FOR INPUT
	1	l		CCACRQIS	CR2 DIR FOR INPUT
	• • •	1		CCAACRIS	ACRQ DIR FOR INPUT
		. 1111			UNUSED
279	(117)	BITSTRIN	G 1	CCAFLAG5	DIS FLAGS(OUTPUT MODE).
					IN STOR DIR ONLY TO BE
					UPADATED
				CCACDSOS	CDS DIR FOR OUTPUT
				CCAACDOS	· — · · · ·
		l		CCACRQOS	
		1		CCAACROS	ACRQ DIR FOR OUTPUT
	• • •	. 1111			UNUSED
					DTG UNG DEEV GULVARD
280					DIS HAS BEEN CHANGED CDS DIR UPDATED
				CCAACDUP	ACDS DIR UPDATED
		1		CCACRQUP CCAACRUP	CRQ DIR UPDATED
		.1		CCAACRUP	ACRQ DIR UPDATED UNUSED
281		CHARACTE	1 מ	CCAFCNV	CONVERT DATA
281		BITSTRIN			CONVERT FLAGS
401		DIISIKIK	· ·	CCACDSC	SMPCDS CONVERTED
		• • • • •		CCAACDSC	SMPACDS CONVERTED
		11 1111		CONTODIO	UNUSED
282		CHARACTE	R 9	CCAFCTL	CONTROL BITS
282		BITSTRIN		CCAFLAG9	PURGE DATASET FLAGS

CCAPTSNP

CCAMTSNP

CCASTSNP

CCAPTSNJ CCARVEST

1...

.1..

..1.

...1

.... 1...

DONT PURGE PTS IF ON DONT PURGE MTS IF ON

DONT PURGE STS IF ON

ESTABLISH STAE ENV

DONT REJECT AT RESTOR

<u>offsets</u>	TYPE	LENGTH	NAME	DESCRIPTION
• • •	1		CCARVCAN	CANCEL STAE ENV
	11			UNUSED
283 (11B)	CHARACTI	ER 3	CCADATE	CURRENT DATE
286 (11E)	CHARACTI	ER 3	CCATIME	TIME STAMP FOR PAGE
				HEADINGS
289 (121)	UNSIGNE	1	CCARPTDS	IOPDSID FOR REPORTS
290 (122)	UNSIGNE	1	CCALSTDS	IOPDSID FOR LISTS
291 (123)	CHARACTI	ER 7	CCAFMID	FMID VALUE FROM EXEC
298 (12A)	CHARACTI	ER 73		FUTURE USE
371 (173)	CHARACTI	ER 0	CCAEND	END OF CCA

CROSS REFERENCE

CCAABEMIX 98 (62 CCAFIOP 140 (8C) CCAACCPT 272 X '20' CCAFIAGA 169 (A9) CCAACCDIS 278 X '40' CCAFIAG3 275 (113) CCAACDIS 278 X '40' CCAFIAG2 275 (113) CCAACDIS 278 X '40' CCAFIAG3 276 (114) CCAACDIS 278 X '40' CCAFIAG4 278 (116) CCAACDSP 136 X '40' CCAFIAG5 279 (117) CCAACDSP 280 X '40' CCAFIAG6 280 (118) CCAACRS 278 X '10' CCAFIAG6 280 (118) CCAACRS 279 X '10' CCAFIAG6 281 (119) CCAACRS 279 X '10' CCAFIAG7 282 (111) CCAACRS 279 X '10' CCAFIAG7 282 (111) CCAACRS 279 X '10' CCAFIAG7 282 (111) CCAACRS 276 X '40' CCAFIAG7 291 (123) CCAASTP 276 X '40' CCAFIAG7 276 (114) CCAFIAG 276 (114) CCAFIAG7 276 (114) CCAFIAG7 276 (114) CCAFIAG7 276 (114) CCAGIAGN 277 (11				
CCAACDID 180 (B4) CCAFLAG1 272(110) CCAACDDS 278 X'40' CCAFLAG2 275(113) CCAACDOS 279 X'40' CCAFLAG2 275(113) CCAACDSC 281 X'40' CCAFLAG3 276(114) CCAACDSP 136 X'40' CCAFLAG5 279(117) CCAACDSP 136 X'40' CCAFLAG6 280(118) CCAACRIS 278 X'10' CCAFLAG6 280(118) CCAACROS 279 X'10' CCAFLAG6 281(119) CCAACROS 279 X'10' CCAFLAG8 281(119) CCAACRUP 280 X'10' CCAFLAG9 282(11A) CCAACRUP 280 X'10' CCAFMID 291(123) CCAACRUP 280 X'10' CCAFMID 291(123) CCAASTPL 276 X'40' CCAFFMC 276(114) CCAASTPL 276 X'40' CCAFFMC 276(114) CCAASTPL 276 X'40' CCAFSTS 148 (BC) CCAASTSF 169 X'40' CCAFSTS 148 (BC) CCACBFIA 4 (4) CCAFSTS 148 (BC) CCACBFIA 4 (4) CCAFTT 264(108) CCACBFIA 6 (60) CCAGTP1 228 (E4) CCACBFNX 96 (60) CCAGTP1 232 (E8) CCACBFOA 8 (8) CCACBFOA 8 (8) CCACBFOA 8 (8) CCACBFOS 278 X'80' CCAICMD 200 (C8) CCACDSID 172 (AC) CCAICMD 200 (C8) CCACDSID 278 X'80' CCAICMD 200 (C8) CCACDSID 278 X'80' CCAICT 192 (C0) CCACDSOS 279 X'80' CCAICT 192 (C0) CCACDSOS 279 X'80' CCAICT 192 (C0) CCACDSUP 280 X'80' CCAICDT 276 X'01' CCACCDST 220 (DC) CCAICDFT 140 (8C) CCACCDST 276 X'20' CCAICDFT 140 (8C) CCACROPP 276 X'20' CCALIST 272 X'01' CCACROPP 276 X'20' CCALIST 272 X'01' CCACROPP 276 X'20' CCALIST 272 X'01' CCACROPP 276 X'20' CCALIST 272 X'01' CCACROPP 276 X'20' CCALIST 272 X'01' CCACROPP 276 X'20' CCALIST 272 X'01' CCACROPP 276 X'20' CCALIST 272 X'01' CCACROPP 276 X'20' CCALIST 272 X'01' CCACROPP 276 X'20' CCALIST 272 X'01' CCACROPP 276 X'20' CCALIST 272 X'01' CCACROPP 276 X'20' CCALIST 272 X'01' CCACROPP 276 X'20' CCALIST 272 X'01' CCACROPP 276 X'20' CCALIST 272 X'01' CCACROPP 276 X'20' CCALIST 275 X'01' CCACROPP 276 X'20' CCALIST 272 X'01' CCACROPP 276 X'20' CCALIST 272 X'01' CCACROPP 276 X'20' CCALIST 272 X'01' CCACROPP 276 X'20' CCALIST 272 X'01' CCACROPP 276 X'20' CCALIST 272 X'01' CCACROPP 276 X'20' CCALIST 272 X'01' CCACROPP 276 X'20' CCALIST 272 X'01' CCACROPP 276 X'20' CCALIST 272 X'01' CCACROPT 275 X'01' CCAPFFN 282 X'40' CCAFFUNC 281(119) CCAPFFN 282 X'40' CCAFFUNC 281(119) CCAPFSN 282 X'10' CCAFFUNC 284(110) CCAPFSN 282 X'10'	CCAABFMX	98 (62)	CCAFIOP	140 (8C)
CCAACDIS 278 X'40' CCAFLAG2 275(113) CCAACDOS 279 X'40' CCAFLAG3 276(114) CCAACDSC 281 X'40' CCAFLAG3 276(114) CCAACDSP 136 X'40' CCAFLAG5 279(117) CCAACDSP 280 X'40' CCAFLAG5 279(117) CCAACDUP 280 X'40' CCAFLAG6 280(118) CCAACROS 278 X'10' CCAFLAG6 280(118) CCAACROS 279 X'10' CCAFLAG7 136 (88) CCAACROS 279 X'10' CCAFLAG9 282(11A) CCAACROP 136 X'01' CCAFLAG9 282(11A) CCAACRUP 280 X'10' CCAFFAG9 282(11A) CCAACRUP 280 X'10' CCAFFAG9 291(123) CCAAPPLY 272 X'40' CCAFPGD 291(123) CCAASIP 276 X'40' CCAFPGC 276(114) CCAASSEL 164 (A4) CCAFSTA 188 (BC) CCAASSEL 164 (A4) CCAFSTA 188 (BC) CCAASYF 169 X'40' CCAFSYS 148 (94) CCABLDLP 208 (D0) CCAFUNCT 264(108) CCACBFIA 4 (4) CCAGTP1 228 (E4) CCACBFA 8 (8) CCAGTP3 236 (EC) CCACBFOA 8 (8) CCAGTP3 236 (EC) CCACBFOA 8 (8) CCAGTP3 236 (EC) CCACDSC 281 X'80' CCAICMD 204 (CC) CCACDSC 281 X'80' CCAICMD 204 (CC) CCACDSS 279 X'80' CCAICT 192 (CO) CCACDSS 278 X'80' CCAICT 192 (CO) CCACDSUP 280 X'80' CCAICT 192 (CO) CCACDSUP 280 X'80' CCAICT 192 (CO) CCACDSUP 280 X'80' CCAICT 192 (CO) CCACDSUP 280 X'80' CCAICT 192 (CO) CCACCDSUP 276 X'80' CCAICPT 140 (8C) CCACRUP 276 X'04' CCAICPTS 148 (94) CCACRUP 276 X'20' CCALISTT 272 X'01' CCACRQOS 279 X'20' CCALIST 272 X'01' CCACRQOS 279 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRSTS 169 X'80' CCAMTSP 138 X'20' CCACRSTS 169 X'80' CCAMTSP 136 X'00' CCACRDS 277 X'80' CCAMTSP 136 X'00' CCACRSTS 169 X'80' CCAMTSP 136 X'00' CCACRSTS 169 X'80' CCAMTSP 136 X'00' CCACRSTS 169 X'80' CCAMTSP 136 X'00' CCACRSTS 169 X'80' CCAMTSP 136 X'00' CCACRSTS 169 X'80' CCAMTSP 136 X'00' CCACRSTS 169 X'80' CCAPBFTX 100 (66) CCACRD 275 X'01' CCAPBFTX 100 (66) CCACRD 275 X'01' CCAPBFTX 100 (66) CCAFON 275 X'01' CCAPBFTX 100 (66) CCAFON 275 X'01' CCAPBFTX 100 (66) CCAFON 281(119) CCAPSTST 169 X'20' CCAFON 281(119) CCAPSTST 188 X'40'	CCAACCPT	272 X'20'	CCAFLAGA	169 (A9)
CCAACDOS 279 X'40' CCAFLAG3 276(114) CCAACDSC 281 X'40' CCAFLAG4 278(116) CCAACDSP 136 X'40' CCAFLAG4 278(116) CCAACDSP 136 X'40' CCAFLAG6 280(118) CCAACRIS 278 X'10' CCAFLAG6 280(118) CCAACROS 279 X'10' CCAFLAG7 136 (88) CCAACROP 136 X'01' CCAFLAG9 282(11A) CCAACRUP 280 X'10' CCAFLAG9 282(11A) CCAACRUP 280 X'10' CCAFPMD 291(123) CCAAPPLY 272 X'40' CCAFPMD 291(123) CCAASREL 164 (A4) CCAFSTA 188 (BC) CCAASSYF 169 X'40' CCAFSTA 188 (BC) CCAASYSF 169 X'40' CCAFSTA 188 (BC) CCACBFIA 4 (4) CCAGTP1 264(108) CCACBFIX 96 (60) CCAGTP2 232 (E8) CCACBFIX 96 (60) CCAGTP2 232 (E8) CCACBFIX 96 (60) CCAICMD 204 (CC) CCACDSC 281 X'80' CCAICMD 204 (CC) CCACDSC 281 X'80' CCAICMD 204 (CC) CCACDSS 279 X'80' CCAICTO 276 X'01' CCACDSP 136 X'80' CCAICTO 276 X'01' CCACDSP 136 X'80' CCAICTO 276 X'01' CCACDSP 136 X'80' CCAICTO 276 X'01' CCACDSP 136 X'80' CCAICTO 276 X'01' CCACDST 273 X'80' CCAICTO 277 X'01' CCACCRPY 276 X'04' CCAICPT 140 (8C) CCACRPY 276 X'04' CCAICPT 138 X'20' CCACRPY 276 X'04' CCAICPT 140 (8C) CCACRPY 276 X'04' CCAICPT 140 (8C) CCACRPY 276 X'04' CCAICTT 192 (76 X'01' CCACRPY 276 X'04' CCAICPT 138 X'20' CCACRPY 276 X'04' CCAICPT 140 (8C) CCACRPY 276 X'04' CCAICPT 138 X'20' CCACRPY 278 X'20' CCALIST 272 X'01' CCACRPY 276 X'02' CCALIST 275 X'01' CCACRPY 276 X'02' CCALIST 275 X'01' CCACRP 280 X'20' CCALIST 275 X'00' CCACRP 277 X'80' CCAPBFIX 104 (68) CCACRP 277 X'80' CCAPBFIX 104 (68) CCAPBIR 4 4 4 CAPFIXI 104 (68) CCAPBIR 277 X'80' CCAPBFIX 104 (68) CCAPBIR 4 4 CAPFIXI 105 CCAPBFIX 106 (69) CCAFUN 281(111) CCAPFIXI 188 X'40' CCAFUN 281(111) CCAPFIXI 188 X'40' CCAFUN 281(111) CCAPFIXI 188 X'40' CCAFUN 281	CCAACDID	180 (B4)	CCAFLAG1	272(110)
CCAACDSC 281 X'40' CCAFLAG4 278(116) CCAACDSP 136 X'40' CCAFLAG5 279(117) CCAACDUP 280 X'40' CCAFLAG5 279(117) CCAACRIS 278 X'10' CCAFLAG6 280(118) CCAACROS 279 X'10' CCAFLAG8 281(119) CCAACROS 279 X'10' CCAFLAG8 282(11A) CCAACRUP 280 X'10' CCAFLAG8 282(11A) CCAACRUP 280 X'10' CCAFMID 291(123) CCAAPPLY 272 X'40' CCAFPGM 208 (D0) CCAASIP 276 X'40' CCAFPGM 208 (D0) CCAASIP 276 X'40' CCAFSTA 188 (BC) CCAASYSF 169 X'40' CCAFSTA 188 (BC) CCAASYSF 169 X'40' CCAFSTA 148 (94) CCABLDLP 208 (D0) CCAFUNCT 264(108) CCACBFIA 4 (4) CCAGTP1 228 (E4) CCACBFIA 96 (60) CCAGTP2 232 (E8) CCACBFA 8 (8) CCAGTP3 236 (EC) CCACBFA 8 (8) CCAGTP3 236 (EC) CCACDSC 281 X'80' CCAICHD 204 (CC) CCACDSC 281 X'80' CCAICHD 200 (C8) CCACDSS 279 X'80' CCAICTT 192 (CO) CCACDSS 279 X'80' CCAICTT 192 (CO) CCACDSUP 280 X'80' CCAICTOK 276 X'01' CCACDSUP 280 X'80' CCAICTOK 276 X'01' CCACDSUP 280 X'80' CCAICTOK 276 X'01' CCACDSUP 280 X'80' CCAICTOK 276 X'01' CCACCRES 278 X'80' CCAICTOK 276 X'01' CCACCRES 278 X'80' CCAICTOK 276 X'01' CCACCRES 278 X'80' CCAICTOK 276 X'01' CCACCRES 278 X'80' CCAICTOK 276 X'01' CCACCRES 278 X'80' CCAICTOK 276 X'01' CCACCRES 278 X'20' CCALIST 272 X'01' CCACRES 278 X'20' CCALIST 272 X'01' CCACREQUP 280 X'80' CCALIST 272 X'01' CCACREQUP 280 X'80' CCALIST 272 X'01' CCACREQUP 280 X'20' CCALIST 275 X'80' CCACRED 277 X'80' CCAMFFN 104 (68) CCADBLD 212 (D4) CCANCPTF 275 X'80' CCADBLD 275 X'02' CCANUCID 168 (88) CCADBLD 275 X'02' CCANUCID 168 (88) CCADBR 277 X'80' CCAPBFN 102 (66) CCAEGFN 275 X'02' CCAPBFS 68 (44) CCAPBR 4(4) CCAPFS 11 156 (9C) CCAFUN 281(119) CCAPTS 11 282 X'80'	CCAACDIS	278 X'40'	CCAFLAG2	275(113)
CCAACDSP	CCAACDOS	279 X'40'	CCAFLAG3	276(114)
CCAACDSP	CCAACDSC	281 X'40'	CCAFLAG4	278(116)
CCAACDUP 280 X'40' CCAFLAG6 280(118) CCAACRIS 278 X'10' CCAFLAG7 136 (88) CCAACROS 279 X'10' CCAFLAG8 281(119) CCAACROS 279 X'10' CCAFLAG8 281(119) CCAACROP 136 X'01' CCAFLAG9 282(11A) CCAACRUP 280 X'10' CCAFPGM 291(123) CCAAPPLY 272 X'40' CCAFPGM 291(123) CCAASIP 276 X'40' CCAFPGM 208 (DO) CCAASIP 276 X'40' CCAFPGC 276(114) CCAASYF 169 X'40' CCAFSYS 148 (BC) CCACBFIA 4 (4) CCAFSYS 148 (94) CCACBFIA 4 (4) CCAGFTI 228 (E4) CCACBFIA 4 (4) CCAGFTI 228 (E4) CCACBFIA 4 (4) CCAGTP1 228 (E4) CCACBFIA 6 (8) CCAGTP2 232 (E8) CCACBFOA 8 (8) CCAGTP3 236 (EC) CCACBFSZ 60 (3C) CCAICMD 204 (CC) CCACDSC 281 X'80' CCAICMD 204 (CC) CCACDSC 281 X'80' CCAICMD 200 (C8) CCACDSC 281 X'80' CCAICMD 200 (C8) CCACDSC 279 X'80' CCAICT 192 (CO) CCACDSC 279 X'80' CCAICT 192 (CO) CCACDSC 270 X'80' CCAICT 192 (CO) CCACDSUP 280 X'80' CCAICT 276 X'01' CCACDSUP 276 X'04' CCAICPTS 140 (F0) CCACMPS 276 X'04' CCAICPTS 140 (8C) CCACMPS 278 X'20' CCALIST 272 X'01' CCACCPP 276 X'20' CCALIST 272 X'01' CCACRQP 273 X'80' CCALIST 272 X'01' CCACRQP 280 X'20' CCALISTD 290(122) CCACRQP 280 X'20' CCALISTD 290(122) CCACRQP 276 X'02' CCALISTD 282 X'40' CCACACSYSF 169 X'80' CCAMPSP 282 X'40' CCACADBLD 212 (D4) CCAMPSP 282 X'40' CCADBLD 212 (D4) CCAMPSP 282 X'40' CCAPSIZ 144 (90) CCAPSIZ 144 (90) CCAPSIZ 144 (90) CCAPSIZ 144 (90) CCAPSID 275 X'01' CCAPSIZ 144 (90) CCAPSID 278 X'01' CCAPSIZ 144 (90) CCAPSID 278 X'01' CCAPSIZ 144 (90) CCAPSID 278 X'01' CCAPSIZ 144 (90) CCAPSID 278 X'01' CCAPSIZ 144 (90) CCAPSID 278 X'01' CCAPSID 244 (18) CCAPSID 244 (10) CCAPSID 2	CCAACDSP			
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CCAACRUP 280 X'10' CCAFMID 291(123) CCAAPPLY 272 X'40' CCAFFGM 208 (D0) CCAASIP 276 X'40' CCAFFGM 208 (D0) CCAASREL 164 (A4) CCAFFSTA 188 (BC) CCAASYSF 169 X'40' CCAFSYS 148 (94) CCABLDLP 208 (D0) CCAFUNCT 264(108) CCACBFIA 4 (4) CCAGTP1 228 (E4) CCACBFIA 96 (60) CCAGTP2 232 (E8) CCACBFOA 8 (8) CCAGTP3 236 (EC) CCACBFOA 8 (8) CCAGTP3 236 (EC) CCACBFSZ 60 (3C) CCAICMD 204 (CC) CCACDSC 281 X'80' CCAICMD 200 (C8) CCACDSID 172 (AC) CCAICMD 200 (C8) CCACDSID 278 X'80' CCAICTT 192 (C0) CCACDSOS 279 X'80' CCAICT 192 (C0) CCACDSOS 279 X'80' CCAICT 276 X'01' CCACDSUP 280 X'80' CCAIT 240 (F0) CCACDSUP 280 X'80' CCAIT 240 (F0) CCACCHECK 275 X'10' CCAIOPTS 152 (98) CCACCHECK 275 X'10' CCAIOPTS 148 (94) CCACMPRS 276 X'04' CCAICT 140 (8C) CCACNV 273 X'80' CCAILST 272 X'01' CCACRQUP 276 X'20' CCALINKP 276 X'10' CCACRQUP 276 X'20' CCALINKP 276 X'10' CCACRQUP 276 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRSIS 278 X'20' CCALIST 272 X'01' CCACRCQC 279 X'20' CCALIST 272 X'01' CCACRCQC 279 X'20' CCALIST 290 (122) CCACRSEL 160 (A0) CCAMBFMX 104 (68) CCACSYSF 169 X'80' CCAMTSP 282 X'40' CCADATE 283(11B) CCAMTSP 136 X'08' CCADATE 283(11B) CCAMTSP 282 X'40' CCADATE 283(11B) CCAMTSP 282 X'40' CCADASAD 128 (80) CCAPBFIA 20 (14) CCADISRQ 277 X'80' CCAPBFIA 20 (14) CCADISRQ 275 X'02' CCAPBFIA 20 (14) CCAPDSAD 128 (80) CCAPBFNX 102 (66) CCAEON 275 X'02' CCAPBFIX 20 (14) CCAPDIS 275 X'01' CCAPGLEN 156 (9C) CCAFOLU 281(119) CCAPGLEN 156 (9C) CCAFOLU 281(119) CCAPGLEN 156 (9C) CCAFOLU 281(110) CCAPTSNJ 282 X'10' CCAFOLU 281(110) CCAPTSNJ 282 X'10' CCAFGTP 224 (E0) CCAPTSNJ 282 X'80'	CCAACROS	279 X'10'	CCAFLAG8	281(119)
CCAACRUP 280 X'10' CCAFMID 291(123) CCAAPPLY 272 X'40' CCAFFGM 208 (D0) CCAASIP 276 X'40' CCAFFGM 208 (D0) CCAASREL 164 (A4) CCAFFSTA 188 (BC) CCAASYSF 169 X'40' CCAFSYS 148 (94) CCABLDLP 208 (D0) CCAFUNCT 264(108) CCACBFIA 4 (4) CCAGTP1 228 (E4) CCACBFIA 96 (60) CCAGTP2 232 (E8) CCACBFOA 8 (8) CCAGTP3 236 (EC) CCACBFOA 8 (8) CCAGTP3 236 (EC) CCACBFSZ 60 (3C) CCAICMD 204 (CC) CCACDSC 281 X'80' CCAICMD 200 (C8) CCACDSID 172 (AC) CCAICMD 200 (C8) CCACDSID 278 X'80' CCAICTT 192 (C0) CCACDSOS 279 X'80' CCAICT 192 (C0) CCACDSOS 279 X'80' CCAICT 276 X'01' CCACDSUP 280 X'80' CCAIT 240 (F0) CCACDSUP 280 X'80' CCAIT 240 (F0) CCACCHECK 275 X'10' CCAIOPTS 152 (98) CCACCHECK 275 X'10' CCAIOPTS 148 (94) CCACMPRS 276 X'04' CCAICT 140 (8C) CCACNV 273 X'80' CCAILST 272 X'01' CCACRQUP 276 X'20' CCALINKP 276 X'10' CCACRQUP 276 X'20' CCALINKP 276 X'10' CCACRQUP 276 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRSIS 278 X'20' CCALIST 272 X'01' CCACRCQC 279 X'20' CCALIST 272 X'01' CCACRCQC 279 X'20' CCALIST 290 (122) CCACRSEL 160 (A0) CCAMBFMX 104 (68) CCACSYSF 169 X'80' CCAMTSP 282 X'40' CCADATE 283(11B) CCAMTSP 136 X'08' CCADATE 283(11B) CCAMTSP 282 X'40' CCADATE 283(11B) CCAMTSP 282 X'40' CCADASAD 128 (80) CCAPBFIA 20 (14) CCADISRQ 277 X'80' CCAPBFIA 20 (14) CCADISRQ 275 X'02' CCAPBFIA 20 (14) CCAPDSAD 128 (80) CCAPBFNX 102 (66) CCAEON 275 X'02' CCAPBFIX 20 (14) CCAPDIS 275 X'01' CCAPGLEN 156 (9C) CCAFOLU 281(119) CCAPGLEN 156 (9C) CCAFOLU 281(119) CCAPGLEN 156 (9C) CCAFOLU 281(110) CCAPTSNJ 282 X'10' CCAFOLU 281(110) CCAPTSNJ 282 X'10' CCAFGTP 224 (E0) CCAPTSNJ 282 X'80'	CCAACRQP	136 X'01'	CCAFLAG9	282(11A)
CCAAPPLY 272 X'40' CCAFPGM 208 (D0) CCAASIP 276 X'40' CCAFPROC 276(114) CCAASREL 164 (A4) CCAFSTA 188 (BC) CCAASYSF 169 X'40' CCAFSYS 148 (94) CCABLDLP 208 (D0) CCAFUNCT 264(108) CCACBFIA 4 (4) CCAGTP1 228 (E4) CCACBFNX 96 (60) CCAGTP2 232 (E8) CCACBFOA 8 (8) CCAGTP2 232 (E8) CCACBFOA 8 (8) CCAGTP3 236 (EC) CCACBSC 281 X'80' CCAICMD 204 (CC) CCACDSC 281 X'80' CCAICMD 200 (C8) CCACDSID 172 (AC) CCAICTF 196 (C4) CCACDSIS 278 X'80' CCAICT 192 (C0) CCACDSOS 279 X'80' CCAICTOK 276 X'01' CCACDSOS 279 X'80' CCAICTOK 276 X'01' CCACDSUP 280 X'80' CCAICTOK 276 X'01' CCACDSUP 280 X'80' CCAICTOK 276 X'01' CCACCHECK 275 X'10' CCAIOPAS 152 (98) CCACHECK 275 X'10' CCAIOPCS 148 (94) CCACMPRS 276 X'04' CCAIOPCS 148 (94) CCACMPRS 276 X'04' CCAIOPCS 148 (94) CCACCOPYP 276 X'20' CCALIST 272 X'01' CCACCOPYP 276 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALISTD 290 (122) CCACRSEL 160 (A0) CCAMBFMX 104 (68) CCACSYSF 169 X'80' CCAMTSP 138 X'10' CCACRQUP 280 X'20' CCALISTD 290 (122) CCACCSREL 160 (A0) CCAMBFMX 104 (68) CCACSYSF 169 X'80' CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCAMCFTF 275 X'80' CCACDSAD 128 (80) CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCAMCFTF 275 X'80' CCADBLD 371 (173) CCAPBFIA 20 (14) CCADSAD 128 (80) CCAPBFIA 20 (14) CCAPBUFR 4 (4) CCAPSIZ 144 (90) CCAFCIL 282 (11A) CCAPSIZ 144 (90) CCAFTUNC 264 (108) CCAPTSNJ 282 X'80' CCAFFUNC 264 (108) CCAPTSNJ 282 X'80'	CCAACRUP	280 X'10'	CCAFMID	291(123)
CCAASREL 164 (A4) CCAFSTA 188 (BC) CCAASYSF 169 X'40' CCAFSYS 148 (94) CCABLDLP 208 (D0) CCAFUNCT 264(108) CCACBFIA 4 (4) CCAGTP1 228 (E4) CCACBFOA 8 (8) CCAGTP2 232 (E8) CCACBFOA 8 (8) CCAGTP3 236 (EC) CCACBFSZ 60 (3C) CCAICMD 204 (CC) CCACDSC 281 X'80' CCAICMD 204 (CC) CCACDSID 172 (AC) CCAICTF 196 (C4) CCACDSIS 278 X'80' CCAICT 192 (C0) CCACDSOS 279 X'80' CCAICT 276 X'01' CCACDSP 136 X'80' CCAICT 240 (F0) CCACDSP 136 X'80' CCAICT 240 (F0) CCACDSP 280 X'80' CCAICT 240 (F0) CCACDST 220 (DC) CCAIOPAS 152 (98) CCACLST 220 (DC) CCAIOPAS 152 (98) CCACCNV 273 X'80' CCAICTT 140 (8C) CCACNV 273 X'80' CCAICTT 140 (8C) CCACRQS 279 X'20' CCALIST 272 X'01' CCACRQS 279 X'20' CCALIST 272 X'01' CCACRQS 279 X'20' CCALIST 272 X'01' CCACRQS 279 X'20' CCALIST 272 X'01' CCACRQP 136 X'02' CCALIST 272 X'01' CCACRQP 280 X'20' CCALIST 272 X'01' CCACRQP 280 X'20' CCALIST 290 (122) CCACSEL 160 (A0) CCAMFMX 104 (68) CCACSYSF 169 X'80' CCAMTSP 282 X'40' CCACRBL 283 (11B) CCAMTSP 282 X'40' CCACDBLD 212 (D4) CCANCPTF 275 X'80' CCADBLD 212 (D4) CCANCPTF 275 X'80' CCADBLD 276 X'02' CCANUCID 168 (A8) CCADSAD 128 (80) CCAPBFNA 102 (66) CCACBOMP 275 X'02' CCANUCID 168 (A8) CCADSAD 128 (80) CCAPBFNA 102 (66) CCACRDN 275 X'02' CCANUCID 168 (A8) CCADSAD 128 (80) CCAPBFNA 102 (66) CCACRON 275 X'02' CCANUCID 168 (A8) CCAPBUFR 4 (4) CCAPSYSF 169 X'20' CCAFON 281 (119) CCAPBFNA 158 (9E) CCAFON 281 (119) CCAPGLEN 156 (9C) CCAFON 281 (119) CCAPGLEN 156 (9C) CCAFON 281 (119) CCAPSYSF 169 X'20' CCAFON 281 (119) CCAPSYSF 169 X'20' CCAFON 281 (119) CCAPSYSF 169 X'20' CCAFON 281 (119) CCAPSYSF 169 X'20' CCAFON 281 (119) CCAPSYSF 169 X'20' CCAFON 281 (110) CCAPTSNJ 282 X'10' CCAFON 284 (1108) CCAPTSNJ 282 X'10' CCAFGTP 224 (E0) CCAPTSNJ 282 X'80'				208 (DO)
CCAASYSF 169 X'40' CCAFSYS 148 (94) CCABLDLP 208 (D0) CCAFUNCT 264(108) CCACBFIA 4 (4) CCAGTP1 228 (E4) CCACBFMX 96 (60) CCAGTP1 228 (E4) CCACBFOA 8 (8) CCAGTP2 232 (E8) CCACBFOA 8 (8) CCAGTP3 236 (EC) CCACBFSZ 60 (3C) CCALCLMD 204 (CC) CCACDSC 281 X'80' CCALCMD 204 (CC) CCACDSC 281 X'80' CCALCMD 200 (C8) CCACDSID 172 (AC) CCALCT 192 (C0) CCACDSIS 278 X'80' CCALCT 192 (C0) CCACDSIS 278 X'80' CCALCT 276 X'01' CCACDSP 136 X'80' CCALD 0 (0) CCACDSUP 280 X'80' CCALD 152 (98) CCACLST 220 (DC) CCALOPAS 152 (98) CCACLST 220 (DC) CCALOPCS 148 (94) CCACMPRS 276 X'04' CCALOPTR 140 (8C) CCACNV 273 X'80' CCALIST 272 X'10' CCACRQUS 279 X'20' CCALIST 272 X'10' CCACRQUS 278 X'20' CCALIST 272 X'01' CCACRQUS 279 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRSEL 160 (A0) CCAMTSP 138 X'10' CCACRSSFF 169 X'80' CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCAMTSP 136 X'80' CCADBLD 276 X'02' CCANUCID 168 (A8) CCADSAD 128 (80) CCAPBFIA 20 (14) CCACROMB 275 X'01' CCAPBFIA 20 (14) CCACROMB 275 X'01' CCAPBFIA 20 (14) CCAFONU 281(119) CCAPBFIX 156 (9C) CCAFONU 281(119) CCAPESIZ 144 (90) CCAFONU 281(119) CCAPTSNJ 282 X'80' CCAFFUNC 264(108) CCAPTSNJ 282 X'80'	CCAASIP	276 X'40'	CCAFPROC	276(114)
CCAASYSF 169 X'40' CCAFSYS 148 (94) CCABLDLP 208 (D0) CCAFUNCT 264(108) CCACBFIA 4 (4) CCAGTP1 228 (E4) CCACBFMX 96 (60) CCAGTP1 228 (E4) CCACBFOA 8 (8) CCAGTP2 232 (E8) CCACBFOA 8 (8) CCAGTP3 236 (EC) CCACBFSZ 60 (3C) CCALCLMD 204 (CC) CCACDSC 281 X'80' CCALCMD 204 (CC) CCACDSC 281 X'80' CCALCMD 200 (C8) CCACDSID 172 (AC) CCALCT 192 (C0) CCACDSIS 278 X'80' CCALCT 192 (C0) CCACDSIS 278 X'80' CCALCT 276 X'01' CCACDSP 136 X'80' CCALD 0 (0) CCACDSUP 280 X'80' CCALD 152 (98) CCACLST 220 (DC) CCALOPAS 152 (98) CCACLST 220 (DC) CCALOPCS 148 (94) CCACMPRS 276 X'04' CCALOPTR 140 (8C) CCACNV 273 X'80' CCALIST 272 X'10' CCACRQUS 279 X'20' CCALIST 272 X'10' CCACRQUS 278 X'20' CCALIST 272 X'01' CCACRQUS 279 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRSEL 160 (A0) CCAMTSP 138 X'10' CCACRSSFF 169 X'80' CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCAMTSP 136 X'80' CCADBLD 276 X'02' CCANUCID 168 (A8) CCADSAD 128 (80) CCAPBFIA 20 (14) CCACROMB 275 X'01' CCAPBFIA 20 (14) CCACROMB 275 X'01' CCAPBFIA 20 (14) CCAFONU 281(119) CCAPBFIX 156 (9C) CCAFONU 281(119) CCAPESIZ 144 (90) CCAFONU 281(119) CCAPTSNJ 282 X'80' CCAFFUNC 264(108) CCAPTSNJ 282 X'80'	CCAASREL	164 (A4)	CCAFSTA	188 (BC)
CCABLDLP 208 (D0) CCAFUNCT 264(108) CCACBFIA 4 (4) CCAGTP1 228 (E4) CCACBFIX 96 (60) CCAGTP2 232 (E8) CCACBFOA 8 (8) CCAGTP3 236 (EC) CCACBFSZ 60 (3C) CCAICLMD 204 (CC) CCACDSC 281 X'80' CCAICMD 204 (CC) CCACDSC 281 X'80' CCAICMD 200 (C8) CCACDSID 172 (AC) CCAICTT 192 (C0) CCACDSIS 278 X'80' CCAICT 192 (C0) CCACDSOS 279 X'80' CCAICTOK 276 X'01' CCACDSOP 136 X'80' CCAICTOK 276 X'01' CCACDSUP 280 X'80' CCAICTOK 276 X'01' CCACCBST 220 (DC) CCAIOPAS 152 (98) CCACLST 220 (DC) CCAIOPCS 148 (94) CCACMPRS 276 X'04' CCAIOPTR 140 (8C) CCACNV 273 X'80' CCALINKP 276 X'10' CCACRQVP 276 X'20' CCALISTP 138 X'20' CCACRQUP 276 X'20' CCALIST 272 X'01' CCACRQOS 279 X'20' CCALISTP 138 X'10' CCACRQUP 280 X'20' CCALISTP 138 X'10' CCACRQUP 280 X'20' CCALISTD 290 (122) CCACRQUP 280 X'20' CCALISTD 290 (122) CCACRQUP 280 X'20' CCALISTP 138 X'10' CCACRQUP 280 X'20' CCALISTP 282 X'40' CCACRSFI 169 X'80' CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCAPFFIA 20 (14) CCADSAD 128 (80) CCAPFFIA 20 (14) CCADSAD 128 (80) CCAPFFIA 20 (14) CCACFONC 275 X'02' CCAPFFIZ 68 (44) CCAFONC 275 X'01' CCAPFISZ 68 (44) CCAFONC 281 (119) CCAPFIN 156 (9C) CCAFFUNC 282 (11A) CCAPTSNJ 282 X'80' CCAFFUNC 264 (108) CCAPTSNJ 282 X'80'			CCAFSYS	148 (94)
CCACBFIA 4 (4) CCAGTP1 228 (E4) CCACBFMX 96 (60) CCAGTP2 232 (E8) CCACBFOA 8 (8) CCAGTP3 236 (EC) CCACBFSZ 60 (3C) CCAICLMD 204 (CC) CCACDSC 281 X'80' CCAICMOD 200 (C8) CCACDSC 281 X'80' CCAICMOD 200 (C8) CCACDSID 172 (AC) CCAICTT 192 (C0) CCACDSIS 278 X'80' CCAICT 192 (C0) CCACDSOS 279 X'80' CCAICT 192 (C0) CCACDSUP 280 X'80' CCAICT 276 X'01' CCACDSUP 280 X'80' CCAIFGTP 240 (F0) CCACCHECK 275 X'10' CCAIOPAS 152 (98) CCACLST 220 (DC) CCAIOPAS 152 (98) CCACMPRS 276 X'04' CCAIOPTR 140 (8C) CCACMPRS 276 X'04' CCAIOPTR 140 (8C) CCACMPY 273 X'80' CCAJCLP 138 X'20' CCACCPYP 276 X'20' CCALIST 272 X'01' CCACRQUS 279 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALISTP 138 X'10' CCACRQUP 280 X'20' CCALISTD 290(122) CCACSREL 160 (A0) CCAMBFMX 104 (68) CCACSYSF 169 X'80' CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCAMPFT 275 X'80' CCADBLP 276 X'02' CCANUCID 168 (A8) CCADSAD 128 (80) CCAPBFIA 20 (14) CCADSAD 128 (80) CCAPBFIA 20 (14) CCACROND 371(173) CCAPBFOA 24 (18) CCAECNW 281(119) CCAPBFIZ 68 (44) CCAFONC 275 X'02' CCAPBFSZ 68 (44) CCAFONC 281(116) CCAPTSP 138 X'40' CCAFONC 275 X'01' CCAPBFIZ 144 (90) CCAFONC 281(116) CCAPTSNJ 282 X'80' CCAFFUNC 264(108) CCAPTSNJ 282 X'10' CCAFFUNC 264(108) CCAPTSNJ 282 X'10'			CCAFUNCT	264(108)
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CCACBFSZ 60 (3C) CCAICLMD 204 (CC) CCACDSC 281 X'80' CCAICMOD 200 (C8) CCACDSID 172 (AC) CCAICPTF 196 (C4) CCACDSIS 278 X'80' CCAICT 192 (C0) CCACDSOS 279 X'80' CCAICTOK 276 X'01' CCACDSP 136 X'80' CCAID 0 (0) CCACDSUP 280 X'80' CCAIFGTP 240 (F0) CCACHECK 275 X'10' CCAIOPAS 152 (98) CCACLST 220 (DC) CCAIOPCS 148 (94) CCACMPRS 276 X'04' CCAIOPCS 148 (94) CCACMPRS 276 X'20' CCALINKP 276 X'10' CCACRQUP 276 X'20' CCALINKP 276 X'10' CCACRQIS 278 X'20' CCALIST 272 X'10' CCACRQIS 279 X'20' CCALIST 272 X'10' CCACRQP 136 X'02' CCALIST 273 X'40' CCACRQP 280 X'20' CCALIST 290(122) CCACRSEL 160 (A0) CC	CCACBFMX	96 (60)	CCAGTP2	232 (E8)
CCACDSC 281 X'80' CCAICMOD 200 (C8) CCACDSID 172 (AC) CCAICPTF 196 (C4) CCACDSIS 278 X'80' CCAICT 192 (C0) CCACDSOS 279 X'80' CCAICTOK 276 X'01' CCACDSP 136 X'80' CCAID 0 (0) CCACDSUP 280 X'80' CCAIDPAS 152 (98) CCACHECK 275 X'10' CCAIOPAS 152 (98) CCACHECK 275 X'10' CCAIOPCS 148 (94) CCACHER 276 X'04' CCAIOPTR 140 (8C) CCACMPRS 276 X'20' CCALINKP 276 X'10' CCACRQIS 278 X'20' CCALINKP 276 X'10' CCACRQIS 278 X'20' CCALIST 272 X'01' CCACRQOS 279 X'20' CCALIST 272 X'01' CCACRQUP 280 X'20' CCALISTD 290(122) CCACRQUP 280 X'20' CCAMTSP 136 X'02' CCADATE 283(11B) CCAMTSP 136 X'08' CCADATE 283(11B) <td< td=""><td>CCACBFOA</td><td>8 (8)</td><td>CCAGTP3</td><td>236 (EC)</td></td<>	CCACBFOA	8 (8)	CCAGTP3	236 (EC)
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CCACDSIS 278 X'80' CCAICT 192 (CO) CCACDSOS 279 X'80' CCAICTOK 276 X'01' CCACDSP 136 X'80' CCAID 0 (0) CCACDSUP 280 X'80' CCAID 0 (0) CCACHECK 275 X'10' CCAIOPAS 152 (98) CCACLST 220 (DC) CCAIOPCS 148 (94) CCACMPRS 276 X'04' CCAIOPTR 140 (8C) CCACNV 273 X'80' CCAJCLP 138 X'20' CCACROPY 276 X'20' CCALINKP 276 X'10' CCACRQIS 278 X'20' CCALIST 272 X'01' CCACRQIS 278 X'20' CCALIST 272 X'01' CCACRQOS 279 X'20' CCALISTP 138 X'10' CCACRQUP 136 X'02' CCALISTD 290(122) CCACRQUP 280 X'20' CCALISTD 290(122) CCACSYSF 169 X'80' CCAMTSNP 282 X'40' CCADATE 283(11B) CCAMTSP 136 X'08' CCADELP 276 X'02' CCANCPTF 275 X'80' CCAPBFIA 20 (14) CCAPBFIA	CCACDSC	281 X'80'	CCAICMOD	200 (C8)
CCACDSOS 279 X'80' CCAICTOK 276 X'01' CCACDSP 136 X'80' CCAID 0 (0) CCACDSUP 280 X'80' CCAID 152 (98) CCACHECK 275 X'10' CCAIOPAS 152 (98) CCACLST 220 (DC) CCAIOPCS 148 (94) CCACMPRS 276 X'04' CCAIOPTR 140 (8C) CCACNV 273 X'80' CCAJCLP 138 X'20' CCACOPYP 276 X'20' CCALINKP 276 X'10' CCACRQIS 278 X'20' CCALIST 272 X'01' CCACRQOS 279 X'20' CCALISTP 138 X'10' CCACRQO 279 X'20' CCALISTP 138 X'10' CCACRQUP 280 X'20' CCALISTP 290(122) CCACSREL 160 (A0) CCAMBFMX 104 (68) CCACSYSF 169 X'80' CCAMTSNP 282 X'40' CCADATE 283(11B) CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCANCPTF 275 X'80' CCADELP 276 X'02' CCANUCID 168 (A8) CCACBIRQ 277 X'80' CCAPBFIA 20 (14) CCACBOM 371(173) CCAPBFOA 24 (18) CCACEOMP 275 X'02' CCAPBFSZ 68 (44) CCACEOMP 275 X'02' CCAPBFSZ 68 (44) CCACEOMP 275 X'01' CCAPBFSZ 68 (44) CCACEOMP 275 X'02' CCAPBFSZ 158 (9E) CCAFCTL 282(11A) CCAPSYSF 169 X'20' CCAFCTL 282(11A) CCAPSYSF 169 X'20' CCAFGTP 224 (E0) CCAPTSNJ 282 X'80'	CCACDSID	172 (AC)	CCAICPTF	196 (C4)
CCACDSP 136 X'80' CCAID 0 (0) CCACDSUP 280 X'80' CCAIFGTP 240 (F0) CCACHECK 275 X'10' CCAIOPAS 152 (98) CCACLST 220 (DC) CCAIOPCS 148 (94) CCACMPRS 276 X'04' CCAIOPTR 140 (8C) CCACNV 273 X'80' CCAJCLP 138 X'20' CCACOPYP 276 X'20' CCALINKP 276 X'10' CCACRQIS 278 X'20' CCALIST 272 X'01' CCACRQOS 279 X'20' CCALISTP 138 X'10' CCACRQP 136 X'02' CCALISTP 138 X'10' CCACRQP 280 X'20' CCALISTD 290(122) CCACSYSF 169 X'80' CCAMBFMX 104 (68) CCACSYSF 169 X'80' CCAMTSNP 282 X'40' CCADATE 283(11B) CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCANCPTF 275 X'80' CCADBLDL 212 (D4) CCANCPTF 275 X'80' CCADISRQ 277 X'80' CCAPBFIA 20 (14) CCACADSAD 128 (80) CCAPBFIA 20 (14) CCACADSAD 128 (80) CCAPBFOA 24 (18) CCAEOSMP 275 X'02' CCAPBFOA 24 (18) CCAEOSMP 275 X'02' CCAPBFSZ 68 (44) CCAEOSMP 275 X'01' CCAPBFSZ 68 (44) CCAEOSMP 275 X'01' CCAPBFSZ 144 (90) CCAFCTL 282(11A) CCAPSYSF 169 X'20' CCAFCTL 282(11A) CCAPSYSF 169 X'20' CCAFGTP 224 (E0) CCAPTSNJ 282 X'80'	CCACDSIS		CCAICT	192 (CO)
CCACDSUP 280 X'80' CCAIFGTP 240 (F0) CCACHECK 275 X'10' CCAIOPAS 152 (98) CCACLST 220 (DC) CCAIOPCS 148 (94) CCACMPRS 276 X'04' CCAIOPTR 140 (8C) CCACMV 273 X'80' CCAJCLP 138 X'20' CCACOPYP 276 X'20' CCALINKP 276 X'10' CCACRQIS 278 X'20' CCALIST 272 X'01' CCACRQOS 279 X'20' CCALISTP 138 X'10' CCACRQP 136 X'02' CCALISTP 138 X'10' CCACRQP 280 X'20' CCALISTD 290(122) CCACRQUP 280 X'20' CCALSTDS 290(122) CCACSREL 160 (A0) CCAMBFMX 104 (68) CCACSYSF 169 X'80' CCAMTSNP 282 X'40' CCADATE 283(11B) CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCANCPTF 275 X'80' CCADELP 276 X'02' CCANUCID 168 (A8) CCADSAD 128 (80) CCAPBFIA 20 (14) CCADSAD 128 (80) CCAPBFIA 20 (14) CCACSOMP 275 X'02' CCAPBFOA 24 (18) CCAEOFNC 275 X'02' CCAPBFOA 24 (18) CCAEOFNC 275 X'02' CCAPBFOA 24 (18) CCAEOSMP 275 X'01' CCAPESIZ 144 (90) CCAFCTL 282(11A) CCAPSYSF 169 X'20' CCAFTUNC 264(108) CCAPTSNJ 282 X'10' CCAFGTP 224 (E0) CCAPTSNJ 282 X'80'	CCACDSOS	279 X'80'	CCAICTOK	276 X'01'
CCACHECK 275 X'10' CCAIOPAS 152 (98) CCACLST 220 (DC) CCAIOPCS 148 (94) CCACMPRS 276 X'04' CCAIOPTR 140 (8C) CCACMPRS 276 X'20' CCAJCLP 138 X'20' CCACOPYP 276 X'20' CCALINKP 276 X'10' CCACRQIS 278 X'20' CCALIST 272 X'01' CCACRQOS 279 X'20' CCALISTP 138 X'10' CCACRQP 136 X'02' CCALISTP 138 X'10' CCACRQP 280 X'20' CCALISTD 290(122) CCACRQUP 280 X'20' CCALISTD 290(122) CCACSREL 160 (A0) CCAMBFMX 104 (68) CCACSYSF 169 X'80' CCAMTSNP 282 X'40' CCADATE 283(11B) CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCANCPTF 275 X'80' CCADELP 276 X'02' CCANUCID 168 (A8) CCADISRQ 277 X'80' CCAPBFIA 20 (14) CCADSAD 128 (80) CCAPBFNX 102 (66) CCAEND 371(173) CCAPBFOA 24 (18) CCAEOFNC 275 X'02' CCAPBFSZ 68 (44) CCAEOSMP 275 X'01' CCAPBFSZ 68 (44) CCAEOSMP 275 X'01' CCAPESIZ 144 (90) CCAFCTL 282(11A) CCAPSYSF 169 X'20' CCAFTUNC 264(108) CCAPTSNJ 282 X'10' CCAFGTP 224 (E0) CCAPTSNJ 282 X'80'	CCACDSP	136 X'80'	CCAID	0 (0)
CCACLST 220 (DC) CCAIOPCS 148 (94) CCACMPRS 276 X'04' CCAIOPTR 140 (8C) CCACNV 273 X'80' CCAJCLP 138 X'20' CCACOPYP 276 X'20' CCALINKP 276 X'10' CCACRQIS 278 X'20' CCALIST 272 X'01' CCACRQOS 279 X'20' CCALISTP 138 X'10' CCACRQP 136 X'02' CCALOG 273 X'40' CCACRQUP 280 X'20' CCALSTDS 290(122) CCACRQUP 280 X'20' CCALSTDS 290(122) CCACSREL 160 (A0) CCAMBFMX 104 (68) CCACSYSF 169 X'80' CCAMTSNP 282 X'40' CCADATE 283(11B) CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCANCPTF 275 X'80' CCADELP 276 X'02' CCANUCID 168 (A8) CCADISRQ 277 X'80' CCAPBFIA 20 (14) CCADSAD 128 (80) CCAPBFIA 20 (14) CCAEOND 371(173) CCAPBFOA 24 (18) CCAEOND 371(173) CCAPBFOA 24 (18) CCAEOSMP 275 X'01' CCAPBFSZ 68 (44) CCAEOSMP 275 X'01' CCAPBSIZ 144 (90) CCAFCNV 281(119) CCAPGLEN 156 (9C) CCAFCTL 282(11A) CCAPSYSF 169 X'20' CCAFTUNC 264(108) CCAPTSNJ 282 X'10' CCAFGTP 224 (E0) CCAPTSNJ 282 X'80'	CCACDSUP	280 X'80'	CCAIFGTP	240 (F0)
CCACMPRS 276 X'04' CCAIOPTR 140 (8C) CCACNV 273 X'80' CCAJCLP 138 X'20' CCACOPYP 276 X'20' CCALINKP 276 X'10' CCACRQIS 278 X'20' CCALIST 272 X'01' CCACRQOS 279 X'20' CCALISTP 138 X'10' CCACRQP 136 X'02' CCALOG 273 X'40' CCACRQUP 280 X'20' CCALSTDS 290(122) CCACRQUP 280 X'20' CCALSTDS 290(122) CCACSREL 160 (A0) CCAMBFMX 104 (68) CCACSYSF 169 X'80' CCAMTSNP 282 X'40' CCADATE 283(11B) CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCANCPTF 275 X'80' CCADELP 276 X'02' CCANUCID 168 (A8) CCADISRQ 277 X'80' CCAPBFIA 20 (14) CCADSAD 128 (80) CCAPBFNX 102 (66) CCAEND 371(173) CCAPBFOA 24 (18) CCAEOFNC 275 X'02' CCAPBFSZ 68 (44) CCAEOSMP 275 X'01' CCAPBFSZ 68 (44) CCAEOSMP 275 X'01' CCAPBESIZ 144 (90) CCAFCIL 282(11A) CCAPSYSF 169 X'20' CCAFCIL 282(11A) CCAPSYSF 169 X'20' CCAFFUNC 264(108) CCAPTSNJ 282 X'10' CCAFGTP 224 (E0) CCAPTSNJ 282 X'80'	CCACHECK	275 X'10'	CCAIOPAS	152 (98)
CCACNV 273 X'80' CCAJCLP 138 X'20' CCACOPYP 276 X'20' CCALINKP 276 X'10' CCACRQIS 278 X'20' CCALIST 272 X'01' CCACRQOS 279 X'20' CCALISTP 138 X'10' CCACRQP 136 X'02' CCALOG 273 X'40' CCACRQUP 280 X'20' CCALSTDS 290(122) CCACSREL 160 (A0) CCAMBFMX 104 (68) CCACSYSF 169 X'80' CCAMTSNP 282 X'40' CCADATE 283(11B) CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCANCPTF 275 X'80' CCADELP 276 X'02' CCANUCID 168 (A8) CCADISRQ 277 X'80' CCAPBFIA 20 (14) CCADSAD 128 (80) CCAPBFIA 20 (14) CCAEND 371(173) CCAPBFOA 24 (18) CCAEOFNC 275 X'02' CCAPBFSZ 68 (44) CCAEOFNC 275 X'01' CCAPBFSZ 68 (44) CCAFONC 281(119) CCAPGLEN 156 (9C) CCAFCTL 282(11A) CCAPSYSF 169 X'20' CCAFTUNC 264(108) CCAPTSNJ 282 X'80' CCAFGTP 224 (E0) CCAPTSNJ 282 X'80'	CCACLST		CCAIOPCS	
CCACOPYP 276 X'20' CCALINKP 276 X'10' CCACRQIS 278 X'20' CCALIST 272 X'01' CCACRQOS 279 X'20' CCALISTP 138 X'10' CCACRQP 136 X'02' CCALOG 273 X'40' CCACRQUP 280 X'20' CCALSTDS 290(122) CCACSREL 160 (A0) CCAMBFMX 104 (68) CCACSYSF 169 X'80' CCAMTSNP 282 X'40' CCADATE 283(11B) CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCANCPTF 275 X'80' CCADELP 276 X'02' CCANUCID 168 (A8) CCADISRQ 277 X'80' CCAPBFIA 20 (14) CCACSADD 128 (80) CCAPBFIA 20 (14) CCAEOFNC 275 X'02' CCAPBFSZ 68 (44) CCAEOSMP 275 X'02' CCAPBFSZ 68 (44) CCAEOSMP 275 X'01' CCAPBFSZ 68 (44) CCAFORN 281(119) CCAPESIZ 144 (90) CCAFCNV 281(119) CCAPBLEN 156 (9C) CCAFCTL 282(11A) CCAPSYSF 169 X'20' CCAFTUNC 264(108) CCAPTSNJ 282 X'80' CCAFGTP 224 (E0) CCAPTSNJ 282 X'80'	CCACMPRS		CCAIOPTR	
CCACRQIS 278 X'20' CCALIST 272 X'01' CCACRQOS 279 X'20' CCALISTP 138 X'10' CCACRQP 136 X'02' CCALOG 273 X'40' CCACRQUP 280 X'20' CCALSTDS 290(122) CCACSREL 160 (A0) CCAMBFMX 104 (68) CCACSYSF 169 X'80' CCAMTSNP 282 X'40' CCADATE 283(11B) CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCANCPTF 275 X'80' CCADELP 276 X'02' CCANUCID 168 (A8) CCADISRQ 277 X'80' CCAPBFIA 20 (14) CCACSADD 128 (80) CCAPBFIA 20 (14) CCAEOFNC 275 X'02' CCAPBFSZ 68 (44) CCAEOFNC 275 X'02' CCAPBFSZ 68 (44) CCAEOSMP 275 X'01' CCAPEMAX 158 (9E) CCAFBUFR 4 (4) CCAPESIZ 144 (90) CCAFCNV 281(119) CCAPESIZ 144 (90) CCAFCTL 282(11A) CCAPSYSF 169 X'20' CCAFTUNC 264(108) CCAPTSNJ 282 X'80' CCAFGTP 224 (E0) CCAPTSNJ 282 X'80'	CCACNV			
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CCACRQP 136 X'02' CCALOG 273 X'40' CCACRQUP 280 X'20' CCALSTDS 290(122) CCACSREL 160 (A0) CCAMBFMX 104 (68) CCACSYSF 169 X'80' CCAMTSNP 282 X'40' CCADATE 283(11B) CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCANCPTF 275 X'80' CCADELP 276 X'02' CCANUCID 168 (A8) CCADISRQ 277 X'80' CCAPBFIA 20 (14) CCADSAD 128 (80) CCAPBFNX 102 (66) CCAEND 371(173) CCAPBFOA 24 (18) CCAEOFNC 275 X'02' CCAPBFSZ 68 (44) CCAEOSMP 275 X'01' CCAPESIZ 144 (90) CCAFOLV 281(119) CCAPESIZ 144 (90) CCAFCTL 282(11A) CCAPSYSF 169 X'20' CCAFTUNC 264(108) CCAPTSNJ 282 X'80' CCAFGTP 224 (E0) CCAPTSNP 282 X'80'	CCACRQIS			
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CCACSYSF 169 X'80' CCAMTSNP 282 X'40' CCADATE 283(11B) CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCANCPTF 275 X'80' CCADELP 276 X'02' CCANUCID 168 (A8) CCADISRQ 277 X'80' CCAPBFIA 20 (14) CCADSAD 128 (80) CCAPBFNX 102 (66) CCAEND 371(173) CCAPBFOA 24 (18) CCAEOFNC 275 X'02' CCAPBFSZ 68 (44) CCAEOSMP 275 X'01' CCAPENAX 158 (9E) CCAFBUFR 4 (4) CCAPESIZ 144 (90) CCAFCNV 281(119) CCAPGLEN 156 (9C) CCAFCTL 282(11A) CCAPSYSF 169 X'20' CCAFTUNC 264(108) CCAPTSNJ 282 X'10' CCAFGTP 224 (E0) CCAPTSNP 282 X'80'	CCACRQUP			
CCADATE 283(11B) CCAMTSP 136 X'08' CCADBLDL 212 (D4) CCANCPTF 275 X'80' CCADELP 276 X'02' CCANUCID 168 (A8) CCADISRQ 277 X'80' CCAPBFIA 20 (14) CCADSAD 128 (80) CCAPBFMX 102 (66) CCAEND 371(173) CCAPBFOA 24 (18) CCAEOFNC 275 X'02' CCAPBFSZ 68 (44) CCAEOSMP 275 X'01' CCAPEMAX 158 (9E) CCAFBUFR 4 (4) CCAPESIZ 144 (90) CCAFCNV 281(119) CCAPGLEN 156 (9C) CCAFCTL 282(11A) CCAPSYSF 169 X'20' CCAFDIS 278(116) CCAPTSNJ 282 X'10' CCAFGTP 224 (E0) CCAPTSNP 282 X'80'				
CCADBLDL 212 (D4) CCANCPTF 275 X'80' CCADELP 276 X'02' CCANUCID 168 (A8) CCADISRQ 277 X'80' CCAPBFIA 20 (14) CCADSAD 128 (80) CCAPBFMX 102 (66) CCAEND 371(173) CCAPBFOA 24 (18) CCAEOFNC 275 X'02' CCAPBFSZ 68 (44) CCAEOSMP 275 X'01' CCAPEMAX 158 (9E) CCAFBUFR 4 (4) CCAPESIZ 144 (90) CCAFCNV 281(119) CCAPGLEN 156 (9C) CCAFCTL 282(11A) CCAPSYSF 169 X'20' CCAFDIS 278(116) CCAPTFP 138 X'40' CCAFGTP 224 (E0) CCAPTSND 282 X'80'				
CCADELP 276 X'02' CCANUCID 168 (A8) CCADISRQ 277 X'80' CCAPBFIA 20 (14) CCADSAD 128 (80) CCAPBFMX 102 (66) CCAEND 371(173) CCAPBFOA 24 (18) CCAEOFNC 275 X'02' CCAPBFSZ 68 (44) CCAEOSMP 275 X'01' CCAPEMAX 158 (9E) CCAFBUFR 4 (4) CCAPESIZ 144 (90) CCAFCTV 281(119) CCAPGLEN 156 (9C) CCAFCTL 282(11A) CCAPSYSF 169 X'20' CCAFDIS 278(116) CCAPTFP 138 X'40' CCAFGTP 224 (E0) CCAPTSNJ 282 X'80'				
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CCAEND 371(173) CCAPBFOA 24 (18) CCAEOFNC 275 X'02' CCAPBFSZ 68 (44) CCAEOSMP 275 X'01' CCAPEMAX 158 (9E) CCAFBUFR 4 (4) CCAPESIZ 144 (90) CCAFCNV 281(119) CCAPGLEN 156 (9C) CCAFCTL 282(11A) CCAPSYSF 169 X'20' CCAFDIS 278(116) CCAPTFP 138 X'40' CCAFFUNC 264(108) CCAPTSNJ 282 X'10' CCAFGTP 224 (E0) CCAPTSNP 282 X'80'				
CCAEOFNC 275 X'02' CCAPBFSZ 68 (44) CCAEOSMP 275 X'01' CCAPEMAX 158 (9E) CCAFBUFR 4 (4) CCAPESIZ 144 (90) CCAFCNV 281(119) CCAPGLEN 156 (9C) CCAFCTL 282(11A) CCAPSYSF 169 X'20' CCAFDIS 278(116) CCAPTFP 138 X'40' CCAFFUNC 264(108) CCAPTSNJ 282 X'10' CCAFGTP 224 (E0) CCAPTSNP 282 X'80'				
CCAEOSMP 275 X'01' CCAPEMAX 158 (9E) CCAFBUFR 4 (4) CCAPESIZ 144 (90) CCAFCNV 281(119) CCAPGLEN 156 (9C) CCAFCTL 282(11A) CCAPSYSF 169 X'20' CCAFDIS 278(116) CCAPTFP 138 X'40' CCAFFUNC 264(108) CCAPTSNJ 282 X'10' CCAFGTP 224 (E0) CCAPTSNP 282 X'80'				
CCAFBUFR 4 (4) CCAPESIZ 144 (90) CCAFCNV 281(119) CCAPGLEN 156 (9C) CCAFCTL 282(11A) CCAPSYSF 169 X'20' CCAFDIS 278(116) CCAPTFP 138 X'40' CCAFFUNC 264(108) CCAPTSNJ 282 X'10' CCAFGTP 224 (E0) CCAPTSNP 282 X'80'			-	
CCAFCNV 281(119) CCAPGLEN 156 (9C) CCAFCTL 282(11A) CCAPSYSF 169 X'20' CCAFDIS 278(116) CCAPTFP 138 X'40' CCAFFUNC 264(108) CCAPTSNJ 282 X'10' CCAFGTP 224 (E0) CCAPTSNP 282 X'80'				
CCAFCTL 282(11A) CCAPSYSF 169 X'20' CCAFDIS 278(116) CCAPTFP 138 X'40' CCAFFUNC 264(108) CCAPTSNJ 282 X'10' CCAFGTP 224 (E0) CCAPTSNP 282 X'80'				
CCAFDIS 278(116) CCAPTFP 138 X'40' CCAFFUNC 264(108) CCAPTSNJ 282 X'10' CCAFGTP 224 (E0) CCAPTSNP 282 X'80'				
CCAFFUNC 264(108) CCAPTSNJ 282 X'10' CCAFGTP 224 (E0) CCAPTSNP 282 X'80'	- -			
CCAFGTP 224 (E0) CCAPTSNP 282 X'80'				
CONFIGE 192 (CO) CONFISE 130 X 10				
	CCALTCI	194 (60)	CONFIDE	130 V 10

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CROSS REFERENCE
             28 (1C)
                                      114 (72)
CCAQBFIA
                          CCA2BFMX
                                      116 (74)
CCAQBFMX
            108 (6C)
                          CCA3BFMX
             32 (20)
                                       48 (30)
CCAQBFOA
                          CCA4BFIA
             72 (48)
                                      118 (76)
CCAQBFSZ
                          CCA4BFMX
            272 X'80'
                                       52 (34)
CCAREC
                          CCA4BFOA
CCAREJ
            272 X'10'
                          CCA4BFSZ
                                       84 (54)
            272 X'08'
                          HMASMCCA
                                        0
                                           (0)
CCARES
            273 X'20'
CCARESET
            277 X'40'
CCARGNP
           289(121)
CCARPTDS
            138 X'08'
CCARPTP
CCARVAD
            188 (BC)
CCARVCAN
            282 X'04'
CCARVEST
            282 X'08'
CCASBFMX
            106 (6A)
CCASCDSP
            136 X'20'
            224 (E0)
CCASEGTP
            224 (E0)
CCASETAD
            138 X'04'
CCASLBP
            216 (D8)
CCASPDCB
            160 (A0)
CCASREL
            282 X'20'
CCASTSNP
            136 X'04'
CCASTSP
            275 X'40'
CCASVCLB
            44 (2C)
CCATBFIA
            120 (78)
CCATBFMX
             80 (50)
CCATBFSZ
            256(100)
CCATBLPA
CCATERM
            275 X'20'
            286(11E)
CCATIME
            138 X'80'
CCATLBP
CCATPAD
            132 (84)
CCAUPDJ
           272 X'04'
CCAUPDP
           276 X'80'
CCAUPDU
            272 X'02'
CCAUT 1P
            137 X'04'
            137 X'02'
CCAUT2P
CCAUT3P
            137 X'01'
                 (C)
CCAVBFIA
            12
            100 (64)
CCAVBFMX
             16 (10)
CCAVBFOA
             64 (40)
CCAVBFSZ
             36 (24)
CCAWBFIA
CCAWBFOA
             40 (28)
             76 (4C)
CCAWBFSZ
CCAWK 1P
            137 X'80'
            137 X'40'
CCAWK2P
            137 X'20'
CCAWK3P
            137 X'10'
CCAWK4P
            137 X'08'
CCAWK5P
            110 (6E)
CCAXBFMX
CCAZAPP
            276 X'08'
            112 (70)
CCA 1BFMX
```

<u>Description</u>: SMP HMASMCRD Parameter List

Macro ID: HMASMCRP

Created by: Caller of HMASMCRD

How to Find: First parameter of HMASMCRD

<u>Function</u>: This is the parameter list to HMASMCRD (General Read Input / Write Sysout) and provides information to read and/or write records from a specified dataset to one or more specified datasets.

OFFSE	TS	TYPE	LENGTH	NAME	DESCRIPTION
0		STRUCTUR		HMASMCRP	·
0	(0)		1	CRPUXNUM	USER EXIT NUMBER OR ZERO Unused
4	(4)	A-ADDRES		CRPSCPAD	HMASMSCP ADDRESS OR 0
8	(8)	UNSIGNED	1	CRPINDS	INPUT DATASET ID(IOPDSID)
9	(9)	UNSIGNED	1	CRPOUTDS	
10	(11)	HINSTGNED	1	CRPRETRN	
11	(R)	CHARACTE	r 3	9.11 N.21 N.N	UNUSED
14	(E)	BITSTRIN	G 2	CRPRETRN CRPFLG1	FLAG BITS
• •	1		-	CRPBFPRM	
	.1.	• ••••		CRPLOGCK	CHECK FOR LOG STMT AND DO NOT WRITE STMT TO SMPLOG
	1			CRPPTS	WRITE RCD TO SMPPTS
		1		CRPLOG	WRITE RCD TO SMPLOG
		. 1		CRPPRINT	WRITE RCD TO SMPOUT
	• • •	1		CRPOTHER	
	• • •	1.		CRPOFFST	PREFIX SMPOUT LINE WITH
		1		CRPSCNCL	CALL FROM SCAN MODULE
	1	• • • • •		CRPEOFEN	EOF ON PRIMARY INPUT ENCOUNT
	.1.	• • • • •		CRPTRMEX	RC RESULT OF TERMINATION BY USER EXIT
	. , 1	• ••••		CRPNOWPP	DO NOT WRITE RECORDS THAT HAVE ++ IN COL 1 AND 2
		1		CRPLIST	WRITE RCD TO SMPLIST
		. 1 111		CRPRPT	WRITE RCD TO SMPRPT UNUSED
16	_	BITSTRIN		CRPFLG2 CRPINSW0	FLAG BITS

CRP

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	1		CRPEOFSW CRPINSW1 CRPEXADD	EOF ON PRIMARY INPUT SW FOR HMASMCRD USE ONLY EXIT TO ADD NEXT RECORD
•	.1		CRPINSW2	SW FOR HMASMCRD USE ONLY
•	.1		CRPWRTLG	WRITE LINE TO LOG
•	1		CRPINSW3	SW FOR HMASMCRD USE ONLY
•	1		CRPEOF 1	FIRST TIME THRU AFTER
				EOF
•	1		CRPINSW4	SW FOR HMASMCRD USE ONLY
•	1		CRPINSW5	SW FOR HMASMCRD USE ONLY
•	1.		CRPINSW6	SW FOR HMASMCRD USE ONLY
	1		CRPINSW7	SW FOR HMASMCRD USE ONLY
1			CRPINSW8	SW FOR HMASMCRD USE ONLY
	1		CRPINSW9	SW FOR HMASMCRD USE ONLY
•	.1		CRPINSWA	SW FOR HMASMCRD USE ONLY
•	1		CRPINSWB	SW FOR HMASMCRD USE ONLY
	1		CRPINSWC	SW FOR HMASMCRD USE ONLY
	1		CRPINSWD	SW FOR HMASMCRD USE ONLY
	1.		CRPINSWE	SW FOR HMASMCRD USE ONLY
	1		CRPINSWF	SW FOR HMASMCRD USE ONLY
18 (1	2) CHARACTE	R 80	CRPBUFFR	INPUT BUFFER
18 (1	2) CHARACTE	R 72	CRPBFCTL	CNTL INFO AREA
18 (1	2) CHARACTE	R 71	CRPBFDTA	DATA AREA
89 (5	9) CHARACTE	R 1	CRPBFCNT	CONTINUUATION CHAR
	A) CHARACTE	R 8	CRPBFSEQ	SEQUENCE NUMBER

CRP

CROSS REFERENCE CRPBFCNT 89 (59) CRPBFCTL 18 (12) CRPBFDTA 18 (12) 14 X'80' CRPBFPRM **CRPBFSEQ** 90 (5A) 18 (12) CRPBUFFR 15 X'80' CRPEOFEN 16 X'80' CRPEOFSW CRPEOF 1 16 X'10' 16 X'40' CRPEXADD 14 (E) CRPFLG1 16 (10) CRPFLG2 CRPINDS 8 (8) 17 X'20' CRPINSWA CRPINSWB 17 X'10' CRPINSWC 17 X'08' CRPINSWD 17 X'04' CRPINSWE 17 X'02' 17 X'01' CRPINSWF 16 X'80' **CRPINSWO** 16 X'40' CRPINSW1 16 X'20' CRPINSW2 16 X'10' CRPINSW3 16 X'08' CRPINSW4 16 X'04' CRPINSW5 16 X'02' CRPINSW6 16 X'01' CRPINSW7 17 X'80' CRPINSW8 17 X'40' CRPINSW9 15 X'10' CRPLIST CRPLOG 14 X'10' 14 X'40' CRPLOGCK 15 X'20' CRPNOWPP 14 X'02' CRPOFFST 14 X'04' CRPOTHER CRPOUTDS 9 (9) CRPPRINT 14 X'08' CRPPTS 14 X'20' 10 CRPRETRN (A) 15 X'08' CRPRPT CRPSCNCL 14 X'01' (4) CRPSCPAD CRPTRMEX 15 X'40' CRPUXNUM 0 (0) 16 X'20' CRPWRTLG

HMASMCRP

0 (0)

CRP

GTP

DESCRIPTION: Parameter List to HMASMGTA (GENERAL TABLE ACCESS)

Macro ID: HMASMGTP

CREATED BY: Caller of HMASMGTA

HOW TO FIND: First Parameter into HMASMGTA

Function: This parameter contains the necessary information

for HMASMGTA to maintain the various SMP tables

OFFSET	<u>'S</u>	TYPE	LENGTH	<u>NAME</u>	DESCRIPTION
0		STRUCTUR		HMASMGTP	PARM TO HMASMGTA
	(0)	UNSIGNED	1		FUNCTION TO BE DONE RETURN CODE FROM FUNCTION
2	(2)	CHARACTE	R 2		UNUSED
4	(4)	SIGNED	2	GTPRCDLN	LENGTH OF RECORD. MAXIMUM LENGTH IS 255
6	(6)	SIGNED	2	GTPKEYLN	
8	(8)	A-ADDRES:	s 4	GTPWKAD	ADDRESS OR REENTRANT WORK AREA FOR HMASMGTA. SET UP BY HMAMGTA DURING FIRST CALL
12	(C)	A-ADDRES:	s 4	GTPBUFAD	ADDRESS OF INPUT/OUTPUT BUFFER
16	(10)	CHARACTE	R 10	GTPRESTR	DATA PASSED BACK FFROM HMASMGTA TO DEFINE LAST RECORD ACCESSED
16	(10)	A-ADDRES:	s 4	GTPPAG	ADDRESS OF LAST PAGE ACCESSED
20	(14)	A-ADDRES:			ADDRESS OF LAST RECORD ACCESSED
24	(18)				POSITION OF LAST RECORD IN LAST PAGE ACCESSED
26	(1A)	BITSTRING	G 1	GTPFLGS1	GTP FLAGS
	1			GTPNOSPM	DO NOT ISSUE OUT OF SPACE MSG IF GETMAIN FAILS
		· · · · ·		GTPRCDNF	RCD NOT FND FOR ADD OR DEL
		.111		GTPPSIZE	UNUSED DEFINES PAGE SIZE

GTP

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION	
		=======			====

GTP512B - 512 BYTE INTERNAL PAGE GTP1K - 1K INTERNAL PAGE SIZE GTP2K - 2K INTERNAL PAGE SIZE

GTP4K - 4K INTERNAL PAGE SIZE(DEFAULT)

27 (1B) UNSIGNED 1 FOR BDY ALIGNMENT

GTP

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CROSS REFERENCE

GTPBUFAD	12	(C)
GTPFLGS1	26	(1X)
GTPFUNCT	0	(0)
GTPKEYLN	6	(6)
GTPNOSPM	26	X'80'
GTPPAG	16	(10)
GTPPOS	24	(18)
GTPPSIZE	26	X'07'
GTPRCD	20	(14)
GTPRCDLN	4	(4)
GTPRCDNF	26	X'40'
GTPRESTR	16	(10)
GTPRETRN	1	(1)
GTPWKAD	8	(8)
HMASMGTP	0	(0)

GTP

ICT

<u>Description</u>: SMP Internal Control Table

Macro ID: HMASMICT

Created by: HMASMDRV and HMASMTBL

How to Find: Pointed to by CCAICT Field of the CCA

<u>Function</u>: This table is used to control SYSMOD application within SMP. All information necessary to process a SYSMOD is put into this table prior to invoking the SMP modules to do the actual processing. The ICT is mapped in five parts.

1- ICT - The base section

2- ICTPTF - The SYSMOD section

3- ICTMOD - The Module section

4- ICTLMOD - The Load Module section

5- ICTVAR - The Variable section

<u>offsets</u>		TYPE LEI	YGTH	NAME	DESCRIPTION
0 (0)	STRUCTURE	12	HMASMICT	SMP INCORE TABLE
0 (0)	CHARACTER	12	ICTCORE	
0 (0)	UNSIGNED	4	ICTPSPLN	PTF SUBPOOL AND LEN
		UNSIGNED UNSIGNED	-	ICTPSP ICTPLEN	PTF SECTION SUBPOOL PTF SECTION LENGTH
4 (4)	UNSIGNED	4	ICTMSPLK	MOD SUBPOOL AND LEN
	-	UNSIGNED UNSIGNED	1	ICTMSP ICTMLEN	MOD SECTION SUBPOOL MOD SECTION LENGTH
8 (8)	UNSIGNED	4	ICTLSPLN	LMOD SUBPOOL AND LEN
	8)	UNSIGNED UNSIGNED	1 3	ICTLSP ICTLLEN	LMOD SECTION SUBPOOL LMOD SECTION LEN

ICT

<u>Description</u>: SMP Internal Control Table (SYSMOD Section)

Macro ID: HMASMICT Created by: HMASMIBL

How to Find: Pointed to by CCAICPTF

Function: This section of the ICT controls processing of all

SYSMODs being process for APPLY, ACCEPT or RESTORE.

<u>OFFSETS</u>	•	TYPE	LENGTH	NAME	DESCRIPTION
0 (0)	STRUCTURE		ICTPTF	PTF SECTION OF ICT
0 (0)			ICTPTFS	PTF OR MODIFICATION NUMBER
0 (0)			ICTPEND	END OF PTF SECTION INDICATED WHEN EQUAL TO ICTENDNT
1	1 .1. .1.	BITSTRING 1111		ICTACC ICTERROR	SYSTEM ERROR ENCOUNTERED DURING PROCESSING UNUSED PTF IS DUMMY SUP ONLY PTF BYPASSED
1		BITSTRING		ICTPFLG3 ICTPPROC	PTF PROCESSING FLAGS PTF IN PROCESS PTF IN PROCESS
•	11.	1		ICTPNOGO ICTPCPL ICTPMSG	PTF ERROR IN PROCESSING PTF COMPLETE PTF MSG PUT OUT IND. VER REJ. FOR MOD
•	• • •	.1		ICTPNOLB ICTPSLST	PTF FOUND ON ACDS PTF WAS IN SELECT/GROUP LIST UNUSED
9 (1	9) 1 1 .1. 1			ICTPFLG5 ICTPDELP ICTPIRQP ICTPNPRP ICTPPREP ICTPREQP ICTPSUPP ICTPJCLP ICTPLRFP	SAME AS IOPPTFF2 PTF HAS DELETES PTF HAS IF REQS PTF HAS NPRES PTF HAS PRES PTF HAS REQS PTF HAS REQS PTF HAS SUPS PTF HAS INLINE JCLIN PTF HAS REL FILES UNUSED PTF ADDED CDS ENTRY

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	1		ICTPMDLP	PTF HAS ELEMENT THAT DELETES
11 (B) BITSTRIN	G 1	ICTPFLG6	SAME AS IOPPTFF3
	1		ICTPSBYP	
	1		ICTPDBYP	
•	.1		ICTPFLF	1ST LEVEL FUNCTION
	.1		ICTFLF	
	1 1111			UNUSED
12	C) BITSTRIN	G 1	ICTPFLG2	MISC FLAGS
1	1		ICTPVRSP	PTF HAS VERSION
•	1		ICTPTR1	HMASMTR1 PROCESSING THIS ENTRY
	.1		ICTPTPS	HMASMTPS PROCESSING THIS
				ENTRY
•	1		ICTPRCND	PTF IS A RESTORE
				CANDIDATE
	1111		7.00007.00	UNUSED
	D) BITSTRIN	G I	ICTPFLG4 ICTPCDSE	PTF PROCESSING FLAGS PTF ENTRY EXISTS ON THE
			TCIPCD2F	CDS/ACDS
	1		ICTPREDO	REPROCESS SYSMOD
	.1		ICTPDEXP	PTF ENTRY IS EXPLICITLY
				DELETED
•	1		ICTPDIMP	PTF ENTRY IS IMPLICITLY
	_			DELETED
•	1		ICTPGELM	PTF ELIMINATED DURING
				SELECTION, IGNORE FOR REPORTS, AS GROUPED BY
				NOGO PTF
	1			UNUSED
	1.			UNUSED
	1			USUSED
14 (E) BITSTRIN	G 1	ICTPFLG8	
	l			PTF GROUP COMPLETE
	1			PTF ELEMENTS COMPLETE
	1		ICTPDCPL	DELETE PROCESS COMP. UNUSED
	F) BITSTRIN	æ 1	ICTPFLG9	COMPLETION FLAGS,
		•	ICTPMSL	ELEMENT SELECTION
				PROCESSING COMPLETED
				(HMASMTMS)
•	1		ICTPWRKO	PTF HAS OVERLAID WRK
	•			DATASET MEMBERS
•	.1		ICTPPDEL	PTF HAS BEEN PREVIOUSLY
	1			DELETED Unused
	1111			REQ CHECKING FLAGS
	1		ICTPRQCK	REQ, MREQ, IREQ, PRE
				CHECKING IS DONE
•	1		ICTPRQOK	REQ CHECKING IS
	1 .		ICTPROBY	SUCESSFUL REQ WAS BYPASSED
•	• • • • • • • • • • • • • • • • • • • •		TOTLUKDI	VIE MYD DILWDDEN

OFFSE	<u>TS</u>	TYPE	LENGTH	NAME	DESCRIPTION
		1			UNUSED
16	(10)	BITSTRIN	G 1	ICTPFLGA	FLAGS
	1			ICTPUSR1	USER WORK FLAG
	1			ICTPPASS	
					PASS@Z67SP00
	_			ICTPUSR2	
				ICTPUSR3	USER WORK FLAG
		1		ICTPUSR4	USER WORK FLAG
		. 1		ICTPUSR5	USER WORK FLAG
		1		ICTPUSR6	USER WORK FLAG
		1 .		ICTPUSR7	USER WORK FLAG
4.5		1		ICTPUSR8	USER WORK FLAG
17	(11)	UNSIGNED	1	ICTPTYPE	MODIFICATION TYPE SAME
					VALUES AS IOPPTYPE:
======	====	======	======	=======	
IOPPUSE	D 1165	D MOD			
IOPPUSE					
IOPPATA					
IOPPFUN					
TOPPION	CFUR	CIION			
18	(12)	UNSIGNED	2	ICTPONUM	PTF PROCESSING ORDER #
20	(14)	IINSTGNED	 2	ICTPSUPN	COUNT OF PTF ENTRIES
		0.020.00	-	2021.201.1	THAT SUP THIS ENTRY
22	(16)	CHARACTE	R 7	ICTPFMID	
29				ICTPVERN	NUMBER OF VERIFY
					STATEMENT USED TO
					PROCESS THIS SYSMOD
30	(1E)	CHARACTE	R 3	ICTPRECD	PTF RECIEVED DATE
33		CHARACTE	R 3	ICTPRECT	PTF RECIEVED TIME
36				ICTPRELN	
38	(26)	CHARACTE	R 26	ICTPTPFX	RELFILE DSN PREFIX
64	(40)	A-ADDRES:		ICTPCHN	CHAIN PTR TO INDEX
					EXTENSION
68	(44)	A-ADDRES:	5 4	ICTPRCHN	PTR TO REQ/MREQ LIST
7 2	(48)	A-ADDRES:	5 4	ICTPSCHN	PTR TO SUP LIST
76	(40)	A-ADDRES:	S 4	ICTPPCHN	PTR TO PRE LIST
	(E0)			TOWNTOWN	DWD WO TREO ITS#
80	(50)	A-ADDKES:	5 4 	TCTPICHN	PTR TO IREQ LIST
	(54)	1 - 1 DDDFC	-	тстрисци	PTR TO NPRE LIST
	、J7, 			TOIFHORK	. 17 10 1141
8.8	(58)	A-ADDRESS	5 4	ICTPVCHN	PTR TO VERSION LIST
			-		
92	(5C)	A-ADDRESS	s 4	ICTPDCHN	PTR TO DELETE LIST
- -			•		

	OFFSET	<u>'S</u>	TYPE	LENGTH	NAME	DESCRIPTION	
			A-ADDRES:	-	ICTPBCHN	PTR TO SUB BY	
_	100		CHARACTE			RESERVED	

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CROSS	REF	ERENCE			
ICTACC	7	x'20'	ICTPREDO	13	X'40'
ICTAPP	7	X'80'	ICTPRELN	36	(24)
ICTBYP	7	X'02'	ICTPREQP	9	X'08'
ICTDUMMP	7	X'04'	ICTPROCS	8	X'80'
ICTERROR	7	x'10'	ICTPR2BY	15	X'02'
ICTFLF	11	X'20'	ICTPRQCK	15	X'08'
ICTPADDP	10	X'02'	ICTPRQOK	15	X'04'
ICTPBCHN	96	(60)	ICTPSBYP	11	X'80'
ICTPCDSE	13	X'80'	ICTPSCHN	72	(48)
ICTPCHN	64	(40)	ICTPSLST	8	X'02'
ICTPCPL	8	X'20'	ICTPSUPN	20	(14)
ICTPDBYP	1 1	X'40'	ICTPSUPP	9	X'04'
ICTPDCHN	92	(5C)	ICTPTF	0	(0)
ICTPDCPL	14	X'20'	ICTPTFS	0	(0)
ICTPDELP	9	X'80'	ICTPTPFX	38	(26)
ICTPDEXP	13	X'20'	ICTPTPS	12	X'20'
ICTPDIMP	13	X'10'	ICTPTR1	12	X'40'
ICTPECPL	14	X'40'	ICTPTYPE	17	(11)
ICTPEND	0	(0)	ICTPUSR1	16	X'80'
ICTPFLF	11	X'20'	ICTPUSR2	16	X'40'
ICTPFLGA	16	(10)	ICTPUSR3	16 16	X'20' X'10'
ICTPFLG1	7 12	(7) (C)	ICTPUSR4 ICTPUSR5	16	X'08'
ICTPFLG2	8	(8)	ICTPUSR5	16	X'04'
ICTPFLG3 ICTPFLG4	13	(D)	ICTPUSR7	16	X'02'
ICTPFLG5	9	(9)	ICTPUSR8	16	X'01'
ICTPFLG5	11	(B)	ICTPVCHN	88	(58)
ICTPFLG8	14	(E)	ICTPVERJ	8	X'08'
ICTPFLG9	15	(F)	ICTPVERN	29	(1D)
ICTPFMID	22	(16)	ICTPVRSP	12	X'80'
ICTPGCPL	14	X'80'	ICTPWRKO	15	X'40'
ICTPGELM	13	X'08'	ICTREGEN	7	X'01'
ICTPICHN	80	(50)	ICTRES	7	X'40'
ICTPIRQP	9	X'40'			
ICTPJCLP	9	X'02'			
ICTPLRFP	9	X'01'			
ICTPMDLP	10	X'01'			
ICTPMSG	8	X'10'			
ICTPMSL	15	X'80'			
ICTPNCHN	84	(54)			
ICTPHOGO	8	X'40'			
ICTPNOLB ICTPNPRP	8 9	X'04' X'20'			
ICTPONUM	18	(12)			
ICTPPASS	16	X'80'			
ICTPPCHN	76	(4C)			
ICTPPDEL	15	X'20'			
ICTPPREP	9	X'10'			
ICTPPROC	8	X'80'			
ICTPRCHN	68	(44)			
ICTPRCND	12	X'10'			
ICTPRECD	30	(1E)			
ICTPRECT	33	(21)			

ICTLMOD

<u>Description</u>: SMP Internal Control Table (Load Module Section)

Macro ID: HMASMICT
Created by: HMASMIBL

How to Find: Pointed to by CCAICLMD

Function: This portion of the ICT is used to control processing

load modules associated with SYSMODs being processed.

OFFSETS		TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURI	E 0	ICTLMOD	LOAD MODULE SECTION OF
0	(0)	CHARACTE		ICTLMNAM	LOAD MODULE NAME
0	(0)	CHARACTE		ICTLNAME	LOAD MODULE NAME
0	(0)	UNSIGNED	4	ICTLEND	INDICATOR FOR END OF LMODS
8	(8)	BITSTRING	 ; 1	ICTLFLG4	LMOD INTERNAL FLAGS
	1			ICTLPROC	LMOD IN PROCESS
	. 1			ICTLNOGO	LMOD NOGO FLAG
	1 .			ICTLCPL	LMOD COMPLETE
	1	l		ICTLMSG	LMOD MSG PUT OUT
		1		ICTLDDCK	LMOD DD CARDS CHECKED
					AND WERE AVAILABLE
		.1		ICTLPASS	TABLE INTERNAL
					PROCESSING PASS FLAG
		11			UNUSED
9	(9)	BITSTRING	, 1	ICTLFLG1	LINK-EDIT PARMS. KEEP IN
					SAME ORDER AS IOPFLGS2
	1			ICTLAPF	APF AC=1
	. 1			ICTLRENT	RE-ENTRANT
	1 .			ICTLREUS	REUSABLE
	1	l 		ICTLSCTR	SCATTER LOADABLE
		1		ICTLOVLY	OVERLAY STRUCTURE
		. 1		ICTLREFR	REFRESHABLE
		1 .		ICTLDC	DOWNWARD COMPATIBLE
		1			UNUSED
10	(A)	BITSTRING	; 1	ICTLFLG5	SAME AS IOPLMDF2
•	1			ICTLNE	NOT EDITABLE
	. 1			ICTLPAGA	ALIGN2 OPTION SPEC.
		1111			UNUSED
				ICTLFLG6	SAME AS IOPLMDF3
11 ((B)	BITSTRING	; 1		UNUSED
12	(C)	BITSTRING	; 1	ICTLFLG7	SAME AS IOPLMDF4
12	(C)	BITSTRING	; 1		UNUSED

OFFSETS	\$	TYPE	LENGTH	NAME	DESCRIPTION
13	(D)	BITSTRIN	G 1	ICTLFLG2	ADDITIONAL LE FLAGS AND
					INTERNAL FLAGS.KEEP IN
					SAME ORDER AS A IOPLMDF5
	1			ICTCOPY	'1'B INDICATES COPY AT
					SYSGEN
SO COMPRE	ESS	DEL MAY B	E DONE		
'O'B IND	CAT	ES LINK A	T SYSGEN		
SO NO COM	1PRE	SS DELETE			
	.1.			ICTLINK	LINK-EDIT PARM OBTAINED
	1			ICTLTDEL	DELETE THIS LMOD
		1			UNUSED
		. 1		ICTLDEL	LMOD PROCESSED BY
					COMPRESS
		111			UNUSED
14			G 1	ICTLFLG3	LMOD INTERNAL FLAGS
	1			ICTTIND 1	TARGET LIB 1 PRESENT
	.1.			ICTTIND2	TARGET LIB 2 PRESENT
	1			ICTLXPND	LMOD TO BE EXPANDED
		1		ICTLCPY	LOAD MODULE IS TO BE
					COPIED
	====	=======			
		. 1		ICTLLKD	LOAD MODULE IS TO BE
					LINKED
=======	===	=======			
		1		ICTLZAP	LOAD MODULE IS TO BE
					ZAPED
=======	====	=======	======		
		11	_		UNUSED
15		CHARACTE		ICTTG1	TARGET LIB 1 DDNAME
		CHARACTE		ICTTG2	TARGET LIB 2 DDNAME
• • •		UNSIGNED	_	ICTLTTR	TTR OF LMOD DATA AREA
34 ((22)	A-ADDRES	S 4	ICTLCHN	CHAIN POINTER TO INDEX
2.4		aus = = = =	n 44		BACK TO MODULE SECTIONS
38 (26)	CHARACTE	R 16		RESERVED

CROS	S REFERENCE
ICTCOPY	13 X'80'
ICTLAPF	9 X'80'
ICTLCHN	34 (22)
ICTLCPL	8 X'20'
ICTLCPY	14 X'10'
ICTLDC	9 X'02'
ICTLDDCK	8 X'08'
ICTLDEL	13 X'08'
ICTLEND	0 (0)
ICTLFLG1	9 (9)
ICTLFLG2	13 (D)
ICTLFLG3	14 (E)
ICTLFLG4	8 (8)
ICTLFLG5	10 (A)
ICTLFLG6	11 (B)
ICTLFLG7	12 (C)
ICTLINK	13 X'40'
ICTLLKD	14 X'08'
ICTLMNAM	0 (0)
ICTLMOD	0 (0)
ICTLMSG	8 X'10'
ICTLNAME	0 (0)
ICTLNE	10 X'80'
ICTLHOGO	8 X'40'
ICTLOVLY	9 X'08'
ICTLPAGA	10 X'40'
ICTLPASS	8 X'04'
ICTLPROC	8 X'80'
ICTLREFR ICTLRENT	9 X'04' 9 X'40'
ICTLREUS	9 X'40' 9 X'20'
ICTLSCTR	9 X'20'
ICTLTDEL	13 X'20'
ICTLTTR	31 (1F)
ICTLXPND	14 X'20'
ICTLZAP	14 X'04'
ICTTG1	15 (F)
ICTTG2	23 (17)
ICTTIND	14 X'80'
ICTTIND2	14 X'40'
TOLLINDS	17 7 70

ICTMOD

<u>Description</u>: SMP Internal Control Table (Module Section)

Macro ID: HMASMICT Created by: HMASMIBL

How to Find: Pointed to by CCAICMOD

<u>Function</u>: This section of the ICT is used to control processing of modules associated with SYSMODs currently being processed.

<u>offsets</u>	TYPE	LENGTH	NAME	DESCRIPTION
0 (0)	STRUCTUR	E 0	ICTMOD	MODULE SECTION OF ICT
0 (0)	CHARACTE		ICTMNAME	MODULE NAME
0 (0)	UNSIGNED		ICTMEND	END OF MODULE SECTION INDICATED WHEN EQUAL TO ICTENDNT
1	BITSTRIN		ICTMFLG2 ICTMPROC ICTMNOGO ICTMCPL ICTMMSG ICTMDEL ICTMMIDU	ERROR IN PROCESSING MODULE COMPLETE
9 (9) 11. 1 .1. 1		G 1	ICTMFLG1 ICTMMODR ICTMMOD ICTMASM ICTMZAP ICTMXPND ICTMMACR ICTMMACU ICTMSRCR ICTMSRCU	COMMON MOD ENT FLG 1 MOD REPLACEMENT FLGS REPLACEMENT (TO BE ASSEMBLED) MOD UPDATE (ZAP) MOD TO BE EXPANDED MACRO REPLACEMENT MACRO UPDATE SOURCE REPLACEMENT SOURCE UPDATE
10 (A) 11	BITSTRIN	G 1	ICTMFLG3 ICTLIBLK ICTLIBTX ICTMRELF ICTMTRX ICTMWRK ICTMALIS ICTMPRMS	COMMON MOD ENT FLG 3 MOD IN LOAD LIB MOD IN OBJ LIB OR MAC IN TEXT LIB ELEMENT ON TLIB DS ELEMENT TRANSFERRED FROM TLIB DS TO UTILITY FILE ELEMENT TRANSFERRED FROM IN-LINE TO WRK DATASET MOD/MAC HAS ALIAS ENTRIES MOD LE PARMS OBTAINED UNUSED
11 (B)	BITSTRIN	G 1	ICTMFLG4	COMMON MOD ENT FLG 4

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
	1		ICTMISEL	ELEMENT SELECTED
	.1		ICTMIDEL	ELEMENT TO BE DELETED
	1		ICTMSELM	MOD ELIMINATED DURING
				MOD SELECTION BECAUSE
				SOURCE WAS SELECTED
	1		ICTMASOC	MOD HAS AN ASSOCIATED
	_			ENTRY IN THE TABLE
	1		ICTMMIDE	MOD ID ERROR
	1		ICTMDSTE	MOD HAS INVALID DISTLIB
	4			NAME
	1 .			UNUSED
	1 			UNUSED
12	(C) BITSTRIN	rg 1	ICTMFLG5	COMMON MOD ENT FLG 5
	1		ICTMPASS	TABLE INTERNAL
				PROCESSING FLAG
	.1		ICTMCOPY	COPY THIS ELEMENT
	1			UNUSED
	1			UNUSED
	1	_		UNUSED
	(D) BITSTRIN		ICTMODF4	MOD FLAGS 4
13	(D) BITSTRIN	IG 1	ICTMLEP1	MOD LE PARMS FROM PTF.
				KEEP IN SAME ORDER AS
	1		ICTMAPF	IOPLEPR APF AC=1 OF PTF
	.1		ICTMRENT	RENT ON PTF
	1		ICTMREUS	REUS ON PTF
	1		ICTMSCTR	SCTR ON PTF
	1		ICTMOVLY	OVLY ON PTF
	1		ICTMREFR	REFR ON PTF
	1.		ICTMDC	DC ON PTF
	1			UNUSED
14	(E) BITSTRIN	-		UNIQUE MOD FLG 5
14	(E) BITSTRIN	(G 1	ICTMLEP2	MOD LE PARMS 2
	1		ICTMNE	NE ON PTF
	.1		ICTMPAGA	ALIGN2 ON PTF UNUSED
15	(F) BITSTRIN	ra 1	ICTMODF6	UNIQUE MOD FLG 5
· -	(F) BITSTRIN			
	(F) BITSTRIN			UNUSED
16 (10) BITSTRIN	rG 1	ICTMODF7	UNIQUE MOD FLG 5
16 (IG 1		MOD LE PARMS 4
16 (10) BITSTRIN	(G 1		UNUSED
	11) BITSTRIN		ICTMACF4	UNIQUE MAC/SRC FLG 4
	1		ICTMACDL	DEL MAC/SRC FROM MTS/STS
				AT ACCEPT TIME
	.1		ICTMHASM	MAC HAS ASSEMBLIES
	1		ICTMFXBS	MAC/SRC IS FIXED BASE
	1		ICTMFXC	FIX BASE STATUS HAS CHANGED FOR ACCEPT
				CHARGED FOR ACCEPT

OFFSE	<u>TS</u>	TYPE	<u>LENGTH</u>	NAME	DESCRIPTION
	• • •	. 1		ICTMXUPD	THIS IS ENTRY CAUSED BY EXTRA UPDATE TO STS
		1'		ICTMDOAS	ASSEMBLY MUST BE DONE
		1.		ICTMZOMZ	ZAP ON MOD ZAP
					ELEMENT JZD00005
		1		ICTMZMPR	ZAP-ON-MOD PAIR REST.
18	(12)	BITSTRING	3 1	ICTMACF5	UNIQUE MAC/SRC FLG 5
19	(13)	BITSTRING	3 1		UNUSED
20	(14)	UNSIGNED	1	ICTMLANG	ASSEMBLY LANGUAGE TYPE. VALUES ARE THE SAME AS FOR IOPMCLNG AND IOPSRLNG.
2 1	(15)	CHARACTE	R 1		UNUSED
22	(16)	UNSIGNED	2	ICTMRELN	RELFILE NUMBER (HEX)
24	(18)	CHARACTE	R 8	ICTFMLIB	FROM LIB

FOR MAC/SRC UPDATE/REPS ICTFMLIB WILL CONTAIN THE DDNAME OF THE LIBRARY TO BE USED AS SYSUT1 TO IEBUPDTE.

FOR ASSEMBLIES ICTFMLIB WILL CONTAIN THE DDNAME OF THE LIBRARY THAT CONTAINS THE MODULE TO BE ASSEMBLED (SYSIN TO ASSEMBLER).

FOR MODULES WITH EITHER ICTLIBLK OF ICTLIBTX ON ICTFMLIB WILL CONTAIN THE DDNAME OF THE LIBRARY THAT CONTAINS THE MODULE IN LOAD OR OBJECT DECK FORMAT.

32	(20)	CHARACTER	8	ICTTOLIB	DDNAME OF LIBRARY TO BE USED AS SYSUT2 TO IEBUPDTE
40	(28)	CHARACTER	8	ICTMASLB	'ASMLIB' FOR MACRO ENTRY
48	(30)	CHARACTER	8	ICTMDSTL	'DISTLIB' NAME
56	(38)	CHARACTER		ICTMSYSL	'SYSLIB' NAME
6 4	(40)	CHARACTER	8	ICTMDOBJ	'DISTOBJ' FOR MACRO OR SOURCE ENTRY
72	(48)	CHARACTER	8	ICTMSSI	'SSI' DATA FOR MACRO/SRC ENTRY
80	(50)	CHARACTER	7	ICTMRMID	RMID OF THIS MOD ENTRY
87	(57)	CHARACTER	1		UNUSED
88	(58)	CHARACTER	7	ICTMFMID	FMID OF THIS MOD ENTRY
95	(5F)	CHARACTER	1		UNUSED

<u>OFFSETS</u>	TYPE	LENGTH	NAME	DESCRIPTION
96 (60)	A-ADDRESS	4	ICTPPTR	PTR TO PTF ENTRY
100 (64)	A-ADDRESS	4	ICTMCHN	CHAIN PTR TO INDEX EXTENSION FOR MOD TO LMOD
104 (68)	A-ADDRESS	4	ICTMICHN	APPLY PTR CDS MODID LIST ACCEPT PTR ACDS MODID LIST. RESTORE- PTR CDS MODID LIST
108 (6C)	A-ADDRESS	4	ICTMICHA	RESTORE PTR ACDS MODID
112 (70)	A-ADDRESS	4	ICTMACHN	PTR TO LIST OF ASSEMBLY ENTRY ADDRESSES. THIS FIELD VAID FOR SOURCE AND MACRO ONLY. THIS FIELD WILL POINT TO NULL LIST FOR ALL OTHERS
116 (74)	A-ADDRESS	4	ICTMTCHN	PTR TO ALIAS LIST
120 (78)	A-ADDRESS	4	ICTMVCHN	PTR TO VERSION LIST
124 (7C)	A-ADDRESS	4	ICTMUCHN	PTR TO UMID LIST
128 (80)	CHARACTER	16		RESERVED

CROSS REFERENCE

ICTFMLIB	24	(18)	ICTMODF6	15	(F)
ICTLIBLK	10	X'80'	ICTMODF7	16	(10)
ICTLIBTX	10	X'40'	ICTMOVLY	13	X'08'
ICTMACDL	17	X'80'	ICTMPAGA	14	X'40'
ICTMACF4	17	(11)	ICTMPASS	12	X'80'
ICTMACF5	18	(12)	ICTMPRMS	10	X'02'
ICTMACHN	112	(70)	ICTMPROC	8	X'80'
ICTMALIS	10	X'04'	ICTMREFR	13	X'04'
ICTMAPF	13	X'80'	ICTMRELF	10	X'20'
ICTMASLB	40	(28)	ICTMRELN	22	(16)
ICTMASM	9	X'40'	ICTMRENT	13	X'40'
ICTMASOC	11	X'10'	ICTMREUS	13	X'20'
ICTMCHN	100	(64)	ICTMRMID	80	(50)
ICTMCOPY	12	X'40'	ICTMSCTR	13	X'10'
ICTMCPL	8	X'20'	ICTMSELM	11	X'20'
ICTMDC	13	X'02'	ICTMSRCR	9	X'02'
ICTMDEL	8	X'08'	ICTMSRCU	9	X'01'
ICTMDOAS	17	X'04'	ICTMSSI	72	(48)
ICTMDOBJ	64	(40)	ICTMSYSL	56	(38)
ICTMDSTE	11	X'04'	ICTMTCHN	116	(74)
ICTMDSTL	48	(30)	ICTMTRX	10	X'10'
ICTMEND	0	(0)	ICTMUCHN	124	(7C)
ICTMFLG1	9	(9)	ICTMVCHN	120	(78)
ICTMFLG2	8	(8)	ICTMWRK	10	X'08'
ICTMFLG3	10	(A)	ICTMXPND	9	X'10'
ICTMFLG4	11	(B)	ICTMXUPD	17	X'08'
ICTMFLG5	12	(C)	ICTMZAP	9	X'20'
ICTMFMID	88	(58)	ICTMZMPR	17	X'01'
ICTMFXBS	17	X'20'	ICTMZOMZ	17	X'02'
ICTMFXC	17	X'10'	ICTPPTR	96	(60)
ICTMHASM	17	X'40'	ICTTOLIB	32	(20)
ICTMICHA	108	(6C) (68)			
ICTMICHN	104 11	X'40'			
ICTMIDEL ICTMISEL	11	X'80'			
ICTMLANG	20	(14)			
ICTMLEP1	13	(D)			
ICTMLEP	14	(E)			
ICTMLEP3	15	(F)			
ICTMLEP4	16	(10)			
ICTMMACR	9	X'08'			
ICTMMACU	9	X'04'			
ICTMMIDE	11	X'08'			
ICTMMIDU	8	X'04'			
ICTMMOD	9	X'80'			
ICTMMODR	9	X'C0'			
ICTMMSG	8	X'10'			
ICTMNAME	0	(0)			
ICTMNE	14	X'80'			
ICTMNOGO	8	X'40'			
ICTMOD	0	(0)			
ICTMODF4	13	(D)			
ICTMODF5	14	(E)			

<u>Description</u>: SMP Internal Control Table (Variable Section)

Macro ID: HMASMICT

Created by: SMP Table modules

How to Find: Pointed to by fixed entries (ICTPTF, ICTLMOD, and

ICTMOD) in the ICT.

<u>Function</u>: These ICT variable index lists contain data or pointers to data for variable length data associated with the fixed entries.

OFFSETS		TYPE L	ENGTH	NAME	DESCRIPTION
0 ((0)	STRUCTURE	0	ICTIXPF	CHAIN PTRS INTO ICT MODULE SECTION
		A-ADDRESS			CHAIN PTR FOR PTF SECTION INTO MODULE SECTION. END OF LIST INDICATED BY ENTRY EQUAL TO ICTENDIX
0 ((0)	STRUCTURE	0	ICTENTLS	GENERAL MAPPING FOR ALL TYPE ENTRIES
0 ((0)	CHARACTER	8	ICTENTNT	ONE ENTRY
		CHARACTER			PTF NUMBER
0 ((0)	A-ADDRESS	4	ICTENTND	END OF LIST MARKER
7 ((7)	BITSTRING	1	ICTENTST	STATUS
					RESERVED
	1	l 		ICTEREQS	REQ SATISFIED
		1		ICTEREQB	REQ BYPASSED
		.1			REQ MUST BE IN ICT
		1.		ICTEREQT	REQ ON TARGET SYSTEM
		1			UNUSED
0 ((0)	STRUCTURE	0	ICTREQLS	LIST OF REQ AND MREQ
					NUMBERS
0 ((O)	CHARACTER		ICTREQNT	ONE REQ ENTRY
0 0	(0)	CHARACTER	7 -	ICTREQNM	REQ PTF NUMBER
0 ((0)	A-ADDRESS	4	ICTREQND	END OF LIST MARKER
				ICTREQST	REQ STATUS
					UNUSED
	1	l		ICTRREQS	REQ SATISFIED
		1		ICTRREQB	REQ BYPASSED
		.1		ICTRREQI	REQ MUST BE IN ICT
•		1.		ICTRREQT	REQ ON TARGET SYSTEM
•		1			UNUSED
0 ((0)	STRUCTURE	0	ICTSUPLS	LIST OF SUP PTF NUMBERS

OFFSET	OFFSETS		LENGTH	NAME	DESCRIPTION
0	(0)	CHARACTE	R 8	ICTSUPNT	ONE SUP ENTRY
0	(0)	CHARACTE	R 7	ICTSUPNM	SUP PTF NUMBER
0 7		A-ADDRES BITSTRIN		ICTSUPND	END OF LIST MARKER UNUSED
0				ICTPRELS	
0	(0)	CHARACTE	R 8	ICTPRENT	ONE PRE ENTRY
0	(0)	CHARACTE	R 7	ICTPRENM	PRE PTF NUMBER
			s 4	ICTPREND	
7		BITSTRIN	G 1	ICTPREST	
				ICTPREQS	UNUSED
		1 . 1		ICTPRE25	
		1 1		ICTPREQI	
		1.		ICTPREQT	PRE ON TARGET SYSTEM
		1		1011.112.1	UNUSED
0			E 0	ICTIRQLS	
0	(0)	CHARACTE	R 16	ICTIRQNT	ONE IREQ ENTRY
0	(0)	CHARACTE	R 7	ICTIRQNM	PRE PTF NUMBER
0	(0)	A-ADDRES	s 4	ICTIRQND	END OF LIST MARKER
7				ICTIRQST	
					UNUSED
		1		ICTIREQS	IREQ SATISFIED
		. 1		ICTIREQB	IREQ BYPASSED
		1		ICTIREQI	IREQ MUST BE IN ICT
		1.		ICTIREQT	IREQ ON TARGET SYSTEM
	• • • •	1			UNUSED
8	(8)	CHARACTE	R 7	ICTCSRNM	CAUSER NUMBER
15					CSR STATUS FLAGS
	111				UNUSED
		1		ICTCSRF	CSR FAILED
		. 1			UNUSED
		111			UNUSED
0	(O) 	STRUCTUR	E 0 	ICTNPRLS	LIST OF NPRE PTF NUMBERS
0	(0)	CHARACTE	R 8	ICTNPRNT	ONE NPRE ENTRY
0	(0)	CHARACTE	R 7	ICTNPRNM	NPRE PTF NUMBER
		A-ADDRES	s 4	ICTNPRND	END OF LIST MARKER
7		BITSTRIN		TABUSA16	UNUSED
0		STRUCTUR	L U	ICTVRSLS	LIST OF VERSIONED PTF NUMBERS
		· - -			

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0 (0) CHARACT	ER 8	ICTVRSNT	ONE VERSION LIST ENTRY
0 (0) CHARACT	ER 7	ICTVRSNM	VRS PTF NUMBER
) A-ADDRE) BITSTRI		ICTVRSND	END OF LIST MARKER UNUSED
) STRUCTU		ICTDELLS	LIST OF DELETE PTF NUMBERS
0 (0) CHARACT	ER 8	ICTDELNT	ONE DELETE ENTRY
0 (0) CHARACT	ER 7	ICTDELNM	DELET PTF NUMBER
0 (0) A-ADDRE	SS 4	ICTDELND	END OF LIST MARKER
			ICTDELST	STATUS
			ICTDELEX	EXPLICT DELETE
0 (0) STRUCTU	RE 0	ICTSBYLS	LIST OF SUP BY PTF NUMBERS
0 (0) CHARACT	ER 8	ICTSBYNT	ONE SUPBY ENTRY
0 (0) CHARACT	ER 7	ICTSBYNM	SUP BY PTF NUMBER
) A-ADDRE) BITSTRI		ICTSBYND	END OF LIST MARKER UNUSED
) STRUCTU		ICTIXMF	CHAIN PTRS INTO LOAD
				MODULE SECTION OF ICT
0 (0) A-ADDRE	ss 4	ICTIXM	CHAIN PTRS FROM MODULE SECTION TO LMOD SECTION. END OF LIST INDICATED BY ENTRY EQUAL TO ICTENDIX
0 (0) STRUCTU	RE 0	ICTMIDLS	LIST OF MODIDS
0 (0) CHĀRĀCT	ER 8	ICTMID	MODID NAME
0 (0) CHARACT	ER 7	ICTMODID	MODID PTF NUMBER
0 (0) A-ADDRE	SS 4	ICTMIDND	END OF LIST WHEN EQUAL TO ICTENDIX
) BITSTRI	NG 1	ICTMODST	FLAG BITS UNUSED
			ICTMIDPS	MID PRE'D/SUP'D BY SYSMOD ASSOC W/SELECTED
	1		ICTMIDPL	ELEMENT MID PRE'D/SUP'D BY LAST SYSMOD PROCESSED (HMASMTMS)
	. 1		ICTMIDF 1	
	1		ICTMIDEG	REGRESSED IN PTF
	1		ICTMIDAM ICTMIDTY	RMID RESULT OF ASSEM MODID TYPE
• •			TO1117711	

<u>OFFSETS</u>	TYPE	LENGTH	NAME	DESCRIPTION
0 (0)	STRUCTUR	E 0	ICTASMLS	LIST OF ASSEMBLY ADDRESSES
0 (0)	A-ADDRES	s 4	ICTASMAD	PTR TO ICT ASM ENTRY
	A-ADDRES STRUCTUR	-	ICTASMND ICTTALLS	END OFF LIST LIST OF ALIAS NAMES
0 (0)	CHARACTE	R 8	ICTTALNM	ALIAS NAME FOR MOD
	A-ADDRES STRUCTUR	-	ICTTALND ICTMVRLS	END OFF LIST LIST OF VERSIONED FMIDS
0 (0)	CHARACTE	R 8	ICTMVRNT	VERSION ENTRY
0 (0)	CHARACTE	R 7	ICTMVRNM	VERSION FMID
7 (7)	A-ADDRES BITSTRIN STRUCTUR	G 1	ICTMVRND ICTIXLF	END OFF LIST UNUSED MOD CHAIN PTRƏZ40SP00
0 (0)	A-ADDRES	s 4	ICTIXL	CHAIN PTR BACK TO ICT MODULE ENTRIES

```
CROSS REFERENCE
ICTASMAD
               (0)
                      ICTNPRNM
                                     (0)
ICTASMLS
              (0)
                      ICTNPRNT
                                     (0)
            0
                                 0
           0 (0)
                                     (0)
ICTASMND
                      ICTPRELS
                                 0
ICTCSRF
           15 X'10'
                      ICTPREND
                                     (0)
ICTCSRNM
           8 (8)
                      ICTPRENM
                                  0
                                     (0)
                                 0 (0)
ICTCSRST
           15 (F)
                      ICTPRENT
ICTDELEX
          7 X'80'
                      ICTPREQB
                                 7 X'08'
ICTDELLS
           0 (0)
                      ICTPREQI
                                 7 X'04'
          0 (0)
0 (0)
0 (0)
ICTDELND
                      ICTPREQS
                                 7 X'10'
                      ICTPREQT
                                  7 X'02'
ICTDELNM
                      ICTPREST
                                 7
                                     (7)
ICTDELNT
          7 (7)
                                 0
                                     (0)
                      ICTREQLS
ICTDELST
ICTENTLS
          0 (0)
                      ICTREQND
                                     (0)
ICTENTND
          0 (0)
                      ICTREQNM
                                 0 (0)
           0 (0)
                      ICTREQNT
                                 0 (0)
ICTENTHM
           0 (0)
                                 7
                                     (7)
ICTENTNT
                      ICTREQST
           7
              (7)
                                  7 X'08'
ICTENTST
                      ICTRREQB
           7 X'08'
                                  7 X'04'
ICTEREQB
                      ICTRREQI
          7 X'04'
                                  7 X'10'
ICTEREQI
                      ICTRREQS
           7 X'10'
                                 7 X'02'
ICTEREQS
                      ICTRREQT
          7 X'02'
                                 0 (0)
ICTEREQT
                      ICTSBYLS
            7 X'08'
                                 0
                                     (0)
ICTIREQB
                      ICTSBYND
                      ICTSBYNM
           7 X'04'
                                     (0)
ICTIREQI
                                 0
                                 0
            7 X'10'
                                     (0)
ICTIREQS
                      ICTSBYNT
                                 0 (0)
ICTIREQT
           7 X'02'
                      ICTSUPLS
              (0)
ICTIRQLS
                      ICTSUPND
                                 0 (0)
           0 (0)
                                 0
ICTIRQND
                      ICTSUPNM
                                     (0)
           0 (0)
ICTIRQNM
                      ICTSUPNT
                                  0
                                     (0)
           0 (0)
ICTIRONT
                      ICTTALLS
                                  0
                                     (0)
          7 (7)
ICTIRQST
                      ICTTALND
                                  0
                                     (0)
          0 (0)
                                 0 (0)
ICTIXL
                      ICTTALNM
          0 (0)
0 (0)
0 (0)
0 (0)
ICTIXLF
                                 0 (0)
                      ICTVRSLS
                                 0
                                     (0)
ICTIXM
                      ICTVRSND
ICTIXMF
                      ICTVRSNM
ICTVRSNT
                                     (0)
                                     (0)
ICTIXP
ICTIXPF
ICTMID
          0 (0)
          7 X'04'
ICTMIDAM
           7 X'10'
ICTMIDF1
           0 (0)
ICTMIDLS
           0 (0)
ICTMIDND
            7 X'20'
ICTMIDPL
           7 X'40'
ICTMIDPS
           7 X'08'
ICTMIDEG
           7 X'03'
ICTMIDTY
           0
ICTMODID
              (0)
            7
ICTMODST
               (7)
              (0)
ICTMVRLS
           0 (0)
ICTMVRND
           0 (0)
ICTMVRNM
ICTMVRNT
           0 (0)
               (0)
ICTNPRLS
           0 (0)
ICTNPRND
```

ICTVAR

<u>Description</u>: SMP I/O Parameter List

Macro ID: HMASMIOP

Created by: Caller of HMASMIO

How to Find: First parameter into HMASMIO

Function: This area contains the information necessary to perform all the I/O required by SMP. Seperate mappings are included for the variable data field (IOPUDATA) for each record mapped.

for the	variable data	1161	.d (IOPUDATA) ±0	or each record mapped.
<u>OFFSETS</u>	TYPE LEN	<u>GTH</u>	NAME	DESCRIPTION
0 (0			HMASMIOP	
0 (0			IOPDSID	
========	========	====	=======================================	
ALLOWABLE V	ALUES ARE			
	SMPLOG DATA SE			• • • • •
IOPCDSM -		_		
	CDS DATA SET			
	SCRATCH(LRECL=	80)		
	SCRATCH(LRECL=			
	MACRO LIBRARIE			
	PTS DATA SET	_		
IOPSGTAP -	SMPJCLIN DATA	SET		
	CDS DIRECTORY			
IOPCDSD -	CDS DIRECTORY			
IOPCONTR -	SMPCNTL DATA S	ΕT		
IOPPTFIN -	SMPPTFIN DATA	SET		
	SMPOUT DATA SE			
IOPCDSA -	ACDS DATA SET	MAIN		
IOPACDS -	ACDS DATA SET			
IOPCDSAD -	ACDS DIRECTORY			
IOPACDSD -	ACDS DIRECTORY			
IOPDDNM -	OTHER DD CARDS			
IOPPUNCH -	SMPPUNCH DATA	SET		
UNUSED				
UNUSED				
IOPMTS - 1	MTS DATA SET			
IOPMTSD -	MTS DIRECTORY			
IOPSYSPT -	SYSPRINT DATA	SET		
UNUSED				
IOPSRCL -	SOURCE LIBRARI	ES		
IOPPTSD -	PTS DIRECTORY			
	FOR MAC TEXT L			
	FOR BLDL/STOW			
	FOR RDJFCB OPE		NS	
	SMPSTS DATA SE	_		
	SMPSTS DIRECTO			
==	SMPCRQ DATA SE			
IOPCRQD -	SMPCRQ DIRECTO	RY		

IOP

IOPACRQ - SMPACRQ DATA SET

```
DESCRIPTION
 OFFSETS TYPE LENGTH NAME
IOPACRQD - SMPACRQ DIRECTORY
IOPLRF - SMPLRF DD CARD
IOPSCDS - SMPSCDS DATA SET
IOPSCDSD - SMPSCDS DIRECTORY
IOPWK1 - SMPWRK1 (MAC AND UPDTE)
IOPWK2 - SMPWRK2 (SRC AND SRCUPD)
IOPWK3 - SMPWRK3 (MOD, ASSEM, ZAP)
IOPWK4 - SMPWRK4 (EXPAND CARDS)
IOPWK5 - SMPWRK5 (COPIED LRF MEMBERS)
IOPWKX - SMPWRKX (ANY OF ABOVE)
IOPRPT - SMPRPT DATASET
IOPLIST - SMPLIST DATASET
   1
      (1) UNSIGNED
                    1 IOPFUNCT I/O FUNCTION
______
INPUT FUNCTIONS
IOPOPEN - OPEN OPERATION
IOPREAD - READ OPERATION
IOPPOSI - POSITION(POINT-INPUT)
IOPLOC - LOCATE(BLDL) OPERATION
IOPBLDL - DIRECTORY BLDL ONLY
IOPJFCSI - PDS TO PDS MEM(INPT)
IOPJFCBP - CHNG BACK TO PDS
IOPXTND - EXTEND IOP ENTRY
IOPINIT - SET UP DIS
IOPFREE - FREE DIS
IOPGETN - GET DIR ENT
IOPGETNC - GET NXT ENT
IOPCLOSN - GETN CLOSE
IOPOPENN - OPEN IN PREP FOR GETN
IOPALC - ALLOC SMPLRF DATA SET
IOPDALC - DE-ALLOCATE (FREE ) SMPLRF DS
IOPDEL - DELETE SMPLRF DATA SET
IOPNCODE - ENCODE MEMBER NAME
 OUTPUT FUNCTIONS
IOPCLOSE - CLOSE OPERATION
IOPWRITE - WRITE OPERATION
IOPSTOWC - STOW CHANGE OP
IOPSTOWD - STOW DELETE OP
IOPSTOWR - STOW REPLACE OP
iopposo - position(point-output)
IOPUDEO - DIRECTORY UPDATE ONLY
IOPCLOSA - CLOSE ALL OPEN FILES
IOPJFCSO - PDS TO PDS MEM(OUTPUT)
IOPWRDIR - WRITE DIS
IOPDCODE - DECODE MEMBER NAME
      (2) A-ADDRESS 1 IOPRETRN RETURN CODE FROM HMASMIO
```

```
LENGTH NAME
 OFFSETS
        TYPE
                               DESCRIPTION
IOPGOOD - FUNCTION COMPLETED OK
IOPUNMOV - OPEN FOR UNMOVEABLE DS FOR COMPRESS
     - EOF ON READ
IOPNOTFD - MEMBER NOT FOUND
IOPNTFND - MEMBER NOT FOUND
IOPEXC - IOP EXCEEDED
IOPSTCRR - STOW CHANGE ERR
IOPDIRFL - DIRECTORY FILLED
IOPNTOPN - UNABLE TO OPEN DS
IOPNTCLS - UNABLE TO CLOSE DS
IOPIOERR - I/O ERR OCCURRED
     (3) UNSIGNED 1 IOPTYPE ELEMENT TYPE
IOPASM - ASSEMBLY TYPE ENTRY
IOPLMD
      - LMOD TYPE ENTRY
IOPMAC
     - MACRO TYPE ENTRY
     - MACRO TYPE ENTRY
IOPMCR
IOPMCU
     - UPDTE TYPE ENTRY
IOPMOD - MODULE TYPE ENTRY
IOPDLB - DLIB TYPE ENTRY
IOPSYS - SYSTEM TYPE ENTRY
     - SOURCE TYPE ENTRY
IOPSRC
IOPSCR
     - SOURCE TYPE ENTRY
     - SRCUPD TYPE ENTRY
IOPSCU
IOPDND - EOF DUMMY TYPE ENTRY
IOPSMD - SYSMOD TYPE ENTRY
     - ZAP TYPE ENTRY
IOPZAP
IOPXZP
      - X/ZAP TYPE ENTRY
IOPFMD - ENVIRONMENT ENTRY
IOPCSR - CRQ/ACRQ CAUSERS (SYSMODS)
IOPMCS - PTS MOD. CONTROL STMTS ENTRY
IOPMEM - MEMBER OF NON-SMP DATASET
     (4) CHARACTER 8 IOPNAME
                               ELEMENT NAME
(4) CHARACTER 7 IOPNAM17
                              USED FOR PTF NUMBERS
______
     (C) CHARACTER 12
                               ADDITIONAL INFO TO
  12
                               ACCESS A MEMBER OF PDS
 12 (C) CHARACTER 8
                               DISTLIB FOR CDS MAC
12 (C) CHARACTER 7 IOPPTFNM
                              PTF NUMBER ASSOCIATED
                              WITH ELEMENT TOBE
                               ACCESSED
```

<u>OFFSETS</u>		TYPE	LENGTH	NAME	DESCRIPTION
19 (1	13)	CHARACTER	. 1		UNUSED
20 (1		SIGNED CHARACTER		IOPSEQNO	SEQ NUM FOR SCDS OR FILE NUMBER FOR TAPE POSITIONING UNUSED
24 (1	18)	CHARACTER	8	IOPDDNAM	DDNAME FOR MAC/SRC AND TEXTLIB
24 (1	8)	CHARACTER	8	IOPDELDD	DDNAME FOR DELETES FROM NON-SMP DATA SETS
32 (2	20)	CHARACTER	20		UNUSED
52 (3	34)	A-ADDRESS =======	4	IOPBUFAD	BUFFER ADDRESS

THE FOLLOWING MAPS THE ACTUAL DATA SET DIRECTORY ENTRY. IOPINAM IS USED TO INDICATE THE MEMBER NAME. FOR THOSE ITEMS LISTED UNDER IOPITYP PUT THE NAME(PACKED FORMAT FOR DLIB AND SOURCE) IN IOPINAM2 AND SET IOPITYP TO THE PROPER TYPE. FOR THOSE ITEMS LISTED UNDER IOPITYP2 PUT THE NAME IN IOPINAM2 AND THEN SET IOPITYP2 TO THE PROPER VALUE

56	(38)	CHARACTER	12	IOPDRMAP	MAPPING OF DATA CONTAINED IN ACTUAL PDS DIRECTORY ENTRY
56	(38)	CHARACTER	8	IOPINAME	MEMBER NAME
56	(38)	CHARACTER	8	IOPINAM	MEMBER NAME
56		CHARACTER	-		TYPE FIELD OF THE CDS

ALLOWABLE VALUES ARE.....

IOPICSYS - CDS SYSTEM

IOPICSR3 - CDS SYSTEM ENTRY FOR REL3

IOPICASM - CDS ASSEM

IOPICLMD - CDS LMOD

IOPICMAC - CDS MACRO

IOPICMOD - CDS MODULE

IOPICSRC - CDS SOURCE

IOPICDLB - CDS DLIB

IOPICSMD - CDS SYSMOD

IOPITSYS - PTS SYSTEM ENTRY

IOPITSMD - PTS FORMATTED SYSMOD

IOPIQDND - DUMMY EOF MEMBER

IOPIQFMD - CRQ FMID

IOPIQSMD - CRQ CAUSER ENTRY(SYSMOD)

OFFSE	TYPE TYPE	LENGTH	NAME	DESCRIPTION
	11		IOPITYP2	CDS/ACDS, MTS, STS
======	:========	=======	========	
ALLOWAE	LE VALUES ARE			
	CR - WK1 MAC			
IOPIWMO	U - WK1 UPDTE			
	R - WK2 SRC			
	CU - WK2 SRCUP	D		
	D - MK3 MOD			
	M - WK3 ASSEM	BLY OBJ		
	AP — WK3 ZAP PD — WK4 EXPAN	n dinne		
TOPIMAR	U - WK4 EXPAN	D CARDS		
	(39) CHARACT			CDS(PTF#,DLIB,SRC, AND SYSTEM) AND PTS(ZAP)
	(40) A-ADDRE			TTR OF ENTRY
67	(40) N-NUUKE (43) IINSTENE	າ 1	TOPILE	LENGTH OF USER DATA
0,	1	•	IOPALIS	ENTRY IS AN ALIAS
	.11			UNUSED
	1 1111			ACTUAL USER DATA LEN
	(44) CHARACT		-	VARIABLE DATA
MAPPING	OF IOPINAME	FOR SCDS	DATA SET	
56	(38) STRUCTU	RE 8	IOPINAM3	MEM NAME
56	(38) BITSTRI	NG 6		FOR SCDS MEMBER
	1111 1111			
	1111 1111			
	1111 1111			
	1111 1111			
	1111 1111			
	11			PACKED PTF NUMBER
	11 1111		IOPITYP3	TYPE

OFFSET	<u>'S</u>	TYPE	LENGTH	<u>NAME</u>	DESCRIPTION
	= = =		======		
		LUES ARE.			
	_	TF ENTRY SSEMBLY E	wmnv		
		MOD ENTRY	AIKI		
	_	ACRO ENTR	Y		
IOPISMOD	– m	ODULE ENT	RY		
IOPISSRC	- s	OURCE ENT	RY		
		LIB ENTRY			
		YSTEM ENT			
TOPISMU	ע – ט	UMMY EOF	MEMBER		
62		SIGNED	2	IOPISEQ3	SEQUENCE NUMBER
STOW CHA	NGE	OLD AND N	AME MEMB	ER NAME MA	PPING
6 8	(44)	STRUCTUR	E 18	IOPSTCMP	STOWC MAP
6 8	(44)	CHARACTE	R 8	IOPONAME	OLD MEMBER NAME
76	(4C)	CHARACTE	R 1	IOPOTYPE	OLD MEMBER TYPE
		CHARACTE		IOPNNAME	NEW MEMBER NAME
85		CHARACTE			NEW MEMBER TYPE
======	====	=======	======	=======	
MAPPING	FOR :	INPUT FOR	IOPLRF	AND IOPPTF	IN OPERATIONS IOPDSN
SET FOR	BOTH	RELFILES	AND PTF	IN TAPE PO	SITIONING. IOPSPACE SET
FOR ALLO	CATI	ON OF NEW	DATASET	FOR LOAD	RELFILE. IOPDTYPE SET
					RELFILE TO INDICATE THE
TYPE OF	MEMB.	ERS BEING	LOADED	TO THE DAT	ASET.
6 8	(44)	STRUCTUR	E 51	IOPDYNDT	DATA ASSOCIATED WITH
					RELFILE AND DYNAMIC
					DATASET ALLOCATION
68	(44)	CHARACTE		IOPDSN	DATA SET NAME
112	(70)	CHARACTE	R 6	IOPSPACE	
112	(70)	SIGNED		 TOPSPDTM	PRIM ALLOC
				IOPSSCND	
		SIGNED		IOPSDIR	DIRECT BLOCKS
118		BITSTRIN	G 1	IOPDTYPE	
		• • • • •		IOPDMAC IOPDSRC	DATASET FOR MACRO
				IOPDSRC	
		1		IOPDMOD	DATASET FOR OCLIR DATASET FOR MODS
		. 1111			RESERVED

IOP IOP

OFFSE	<u>ITS</u>	TYPE	LENGTH	NAME	DESCRIPTION	
======	=====	=======	======			
SIMPLE	MAPPI	NG OF MAX	. DIR. E	NTRY		
56	(38)	STRUCTUR	E 74	IOPNTMAX	MAPPING OF ACTUAL DIRECTORY DATA	
56	(38)	CHARACTE			ENTRY NAME	
67	(40) (43)	A-ADDRES: UNSIGNED	S 3 1		ENTRY TTR ENTRY USER DATA LEN	
68	(44)	CHARACTE			MAXIMUM USER DATA	
SIMPLE MAPPING OF MAX. DIR. ENTRY FOR CDS/ACDS/SCDS NOTE THAT THIS IS ALSO VALID FOR THE PTS SYSMOD ENTRIES. 56 (38) STRUCTURE 36 IOPNTMAP MAPPING OF ACTUAL						
					DIRECTORY DATA	
56 	(38)	CHARACTE		IOPCDMAP	MAX CDS DIR ENTRY	
56 	(38)	CHARACTE			MAX PTS DIR ENTRY	
56	(38)	CHARACTE	R 36	IOPSCMAP	MAX SCDS DIR ENTRY	
56	(38)	CHARACTE	R 8		ENTRY NAME	
64	(40)	A-ADDRES:	3		ENTRY TTR	
67	(43)	UNSIGNED	1		ENTRY USER DATA LEN	
68	(44)	CHARACTE		IOPDIRCT	MAXIMUM USER DATA	
68	(44)	CHARACTE		IOPCDMAX	CDS/ACDS/SCDS MAX	
68	(44)	CHARACTE	R 24	ĮOPPTMAX	PTS MAX (ONLY PTF ENTRIES HAVE USERDATA	

OFFS	<u>ets</u>	TYPE	LENGTH	NAME	DESCRIPTION
=====			======	======	
SIMPLE	MAPPI	NG OF MAX.	DIR. E	NTRY FOR	CR2/ACR2
56	(38)	STRUCTURE	14	IOPCQMAF	MAPPING OF ACTUAL DIRECTORY ATA
56	(38)	CHARACTER	. 8		ENTRY NAME
		A-ADDRESS Unsigned	_		ENTRY TTR ENTRY USER DATA LEN
68	(44)	CHARACTER	. 2	IOPCQMAX	MAXIMUM USER DATA
SEQUEN!	TIAL D	D BY HMASM IRECTORY R STRUCTURE	EAD OPE		PERATIONS AND AT EOF ON INFO FROM OPEN
		CHARACTER	. 6	IOPVLSER	BLOCKSIZE FROM OPEN VOLSER OF TAPE
76 68	(4C) (44)		2 8		TAPE FILE SEQ NUM INFO FROM DIR READ
68	(44)	SIGNED	4	IOPUSED	DIRECTORY BLOCKS USED FOR IOPGETNC ONLY
72	(48)	SIGNED	4	IOPALLOC	DIRECTORY BLOCKS ALLOCATED FOR IOPGETNC ONLY

```
CROSS REFERENCE
HMASMIOP
              0
                  (0)
                                        64 (40)
                           IOPTTR
IOPALIS
             67 X'80'
                           IOPTYPE
                                         3
                                            (3)
IOPALLOC
             72 (48)
                                        68 (44)
                           IOPUSED
                (44)
IOPBLKSI
             68
                           IOPUSERL
                                        67 (43)
IOPBUFAD
             52 (34)
                           IOPVLSER
                                        70 (46)
IOPCDMAP
             56 (38)
IOPCDMAX
             68 (44)
IOPCQMAP
             56 (38)
IOPCQMAX
             68 (44)
IOPDDNAM
             24 (18)
IOPDELDD
             24 (18)
IOPDIRCT
             68 (44)
             68 (44)
IOPDIRMX.
IOPDJCL
            118 X'20'
IOPDMAC
            118 X'80'
            118 X'10'
IOPDMOD
IOPDRMAP
             56 (38)
IOPDSID
              0
                  (0)
IOPDSN
             68 (44)
IOPDSRC
            118 X'40'
IOPDTYPE
            118 (76)
IOPDYNDT
             68 (44)
IOPEND
             68 (44)
IOPFUNCT
             1
                 (1)
IOPINAM
             56 (38)
IOPINAME
             56 (38)
IOPINAM2
             57 (39)
             56 (38)
IOPINAM3
IOPIPTF3
             56 X'**'
             62 (3E)
IOPISE23
IOPITYP
             56 (38)
IOPITYP2
             56 X'CO'
IOPITYP3
             61 X'3F'
IOPNAME
              4
                 (4)
IOPNAM17
              4
                 (4)
IOPNNAME
             77 (4D)
             56 (38)
IOPNTMAP
IOPNTMAX
             56 (38)
IOPNTYPE
             85 (55)
IOPONAME
             68 (44)
IOPOTYPE
             76 (4C)
IOPPTFNM
             12
                 (C)
             56 (38).
IOPPTMAP
IOPPTMAX
             68 (44)
IOPRETRN
              2
                 (2)
IOPSCMAP
             56 (38)
            116 (74)
IOPSDIR
IOPSEQNO
             20 (14)
IOPSPACE
            112 (70)
IOPSPRIM
            112 (70)
IOPSSCND
            114 (72)
IOPSTCMP
             68 (44)
IOPTPSE2
             76 (4C)
```

IOPASMNT

Description: IOP CDS/SCDS Assembly Entry

Macro ID: HMASMIOP

Created by: Caller of HMASMIO if a read, HMASMIO if a write

How to Find: Immediately after the base IOP Function: Maps the CDS/SCDS Assembly Entry

OFFSETS	TYPE	LENGTH	NAME	DESCRIPTION
0 (0)	STRUCTUR	E 92	IOPASMNT	CDS/SCDS ASSEMBLY
0 (0)	CHARACTE	R 68		BASE IOP
68 (44)				
68 (44)		1		ENTRY LEVEL
ALLOWABLE VA	LUES ARE.		• • • • • • • • • • • • •	. az40sp63
IOPASML1 - F	IRST			
IOPASML2 - S	ECOND			
IOPASMLC - C	URRENT			
				BACK UP DATA
69 (45)	CHARACTE	R 7	IOPABUPT	SYSMOD NUM CAUSING BU
76 (4C)	UNSIGNED	1	IOPABUTP	TYPE BU MODIFICATION

IOPASMNT IOPASMNT OFFSETS TYPE LENGTH NAME DESCRIPTION

IOPBUADD - ADD OF NEW ENTRY

IOPBUDEL - DEL OF EXISTING ENTRY

IOPBUMOD - MODIFICATION TO EXISTING ENTRY

77 (4D) CHARACTER 15 UNUSED

IOPASMNT

IOPLMDNT

Description: IOP CDS/SCDS Load Module Entry

Macro ID: HMASMIOP

Created by: Caller of HMASMIO if a read, HMASMIO if a write

How to Find: Immediately after the base IOP Function: Maps the CDS/SCDS Load Module entry

OFFSE	ETS	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTUR	E 172	IOPLMDNT	CDS DATA FOR LOAD MODULES
		CHARACTE			BASE IOP
				IOPLMDDR	MAX DIRECTORY DATA
68	(44)	UNSIGNED	1		SAME AS IOPHTLVL
			• • • • • • •	• • • • • • • • • • • • • • • • • • • •	az40sP63
IOPLMDI IOPLMDI					
IOPLMDI					
TOPLINDI	.C - C(DRRENI			
69	(45)	CHARACTE	R 4	IOPLMLEP	LMOD LEPARMSS
69	(45)	BITSTRING	G 1	IOPLMDF1	LEPARMS BYTE 1
69	(45)	BITSTRING BITSTRING	G 1	IOPFLGS2	LEPARMS BYTE 1
				IOPAPF	APF, AX=1
	.1.			IOPRENT	RE-ENTRANT
	1			IOPREUS	REUSABLE
	• • • '	1		IOPSCTR	SCATTER LOAD
		. 1		IOPOVLY	OVERLAY STRUCTURE
		1		IOPREFR	REFRESHABLE
		1.		IOPDC	DOWNWARD COMPATABLE
		1			UNUSED
70	(46)	BITSTRING	G 1	IOPLMDF2	LEPARMS BYTE 2
		• • • • •		IOPNE	NOT EDITABLE
				IOPPAGA	ALIGN 2
		1 1111			UNUSED
				IOPLMDF3	LEPARMS BYTE 3
71	(47)	BITSTRING	G 1 		UNUSED
	(48)		G 1	IOPLMDF4	LEPARMS BYTE 4
				IOPLMDF5	
73	(49)	BITSTRING	G 1	IOPLMDF5	FLAGS
73	(49)	BITSTRING	G 1	IOPFLGS3	LMOD FLAGS
		• • • •		IOPCOPY	COPIED AT SYSGEN

IOPLMDNT

OFFSET	<u>'S</u>	TYPE	LENGTH	NAME	DESCRIPTION
	1	 1 1111		IOPLINK IOPCHREP	CHANGE/REPLACE CARDS OCCUR
74		CHARACTI	ER 18		UNUSED UNUSED
92	(5C)	CHARACTI	ER 80	IOPLMDFX	FIXED DATA PORTION
92	(5C)	CHARACTI	ER 8		SAME AS IOPBUNT
92	(5C)	CHARACT			SAME AS IOPBUSMD
		UNSIGNE			SAME AS IOPBUTYP
======	====				
		LUES ARE.			az40sp63
	•••		STING EN	TRY	
IOPBUMOD	- M	ODIFICATI	ON TO EX	ISTING ENTR	Y
100	(64)	CHARACTI	ER 63	IOPLNTRY	VARIABLE LIST-MAX 2
100	(64)	CHARACTI	ER 8	IOPLSYS	SYSLIB NAME
100	(64)	CHARACTI	ER 8	IOPSYSLB	SYSLIB NAME
100	(64)	UNSIGNE) 1	IOPLMDND	END OF LIST WHEN FF
108	(6C)	UNSIGNE) 1	IOPLMIND	TYPE SUB-ENTRY

IOPLMDNT

CROSS REFERENCE 69 X'80' IOPAPF 73 X'20' IOPCHREP 73 X'80' IOPCOPY 69 X'02' IOPDC 69 (45) IOPFLGS2 IOPFLGS3 73 (49) 73 X'40' IOPLINK 68 (44) IOPLMDDR 92 (5C) IOPLMDFX 69 (45) IOPLMDF1 70 (46) IOPLMDF2 71 (47) IOPLMDF3 72 (48) IOPLMDF4 73 (49) IOPLMDF5 100 (64) IOPLMDND 0 (0) IOPLMDNT 108 (6C) IOPLMIND 69 (45) IOPLMLEP IOPLNTRY 100 (64) 100 (64) IOPLSYS 70 X'80' IOPNE IOPOVLY 69 X'08' IOPPAGA 70 X'40' 69 X'04' IOPREFR IOPRENT 69 X'40' 69 X'20' IOPREUS 69 X'10' IOPSCTR IOPSYSLB 100 (64)

IOPLMDNT

IOPMACHT

Description: IOP CDS/SCDS Macro Entry

Macro ID: HMASMIOP

Created by: Caller of HMASMIO if a read, HMASMIO if a write

How to Find: Immediately after the base IOP
Function: Maps the CDS/SCDS Macro entry

<u>offsets</u>		TYPE	LENGTH	NAME	DESCRIPTION
0 (0)	STRUCTURE	172	IOPMACNT	CDS DATA FOR MACROS
0 (0)	CHARACTE	R 68		BASE IOP
68 (4	4)	CHARACTE	24	IOPMACDR	MAX DIRECTORY DATA
68 (4	4)	UNSIGNED	1		SAME AS IOPNTLVL
ALLOWABLE IOPMACL1 - IOPMACL2 - IOPMACL3 - IOPMACLC -	FI SI	ERST ECOND HIRD	• • • • • • •	az	40SP63
				IOPRMIDE IOPRMID	RMID ENTRY RMID NUMBER
1	1	BITSTRING	; 1	IOPRMST IOPRMASM	RMID STATUS BITS UNSED MOD ONLY MOD REPLACED AS RESULT OF MAC ASM UNUSED
77 (4	D)	CHARACTE		IOPFMIDE IOPFMID	FUNCTION ID FUNCTION ID
		BITSTRING UNSIGNED		IOPFMST IOPMCLNG	

IOPMACNT

OFFSE	TS	TYPE	LENGTH	<u>NAME</u>	DESCRIPTION				
	=====			=======					
		LUES ARE. SSEMBLER							
86	(56)	CHARACTE	R 6		UNUSED				
92	(5C)	CHARACTE		IOPMACFX	FIXED DATA				
92	(5C)	CHARACTE		IOPBUNT	BACK UP DATA				
99	(63)	UNSIGNED	1	IOPBUTYP	SYSMOD NUM CAUSING BU TYPE BU MODIFICATION				
IOPBUAD IOPBUDE	ALLOWABLE VALUES ARE								
100	(64)	CHARACTE	R 56		UNUSED				
156	(90)	CHARACTE		IOPMCSYS	OPERATING SYSTEM LIB				
164	(A4)	CHARACTE	R 8		DISTRIBUTION LIBRARY				
			R 0 E 0	IOPMCEND IOPMACVR	END OF MAC FIXED VARIABLE LIST				
172	(AC)	CHARACTE		IOPMCENT	VARIABLE ENTRIES END OF LIST INDICATED BY SETTING FIRST CHAR OF NEXT ENTRY TO IOPEOLST				
172	(AC)	CHARACTE	R 8	IOPMCDTA	GENERAL ENTRY MAP				
172	(AC)	CHARACTE		IOPMCASM	MOD TO BE ASSEMBLED FOR MACROS ONLY				
172	(AC)	CHARACTE			MODID SYSMOD NUMBERS				
172	(AC)	UNSTGNED	1 G 1 G 1	TOPMACND	END OF LIST WHEN FF MODID SYSMOD STATUS UNUSED				
180	(B4)	UNSIGNED			TYPE ENTRY				
180	(B4)	UNSIGNED	1	IOPMCTYP	TYPE ENTRY				

IOPMACHT

01.000		<u>ERENCE</u>
IOPBUNT	92	(5C)
IOPBUSMD	92	
IOPBUTYP	99	(63)
IOPFMID	77	(4D)
IOPFMIDE	77	(4D)
IOPFMST	84	(54)
IOPMACDR	68	(44)
IOPMACFX	92	(5C)
IOPMACID	172	(AC)
IOPMACND	17′2	(AC)
IOPMACNT	0	(0)
IOPMACST	179	(B3)
IOPMACVR	172	(AC)
IOPMCASM	172	(AC)
IOPMCDLB	164	(A4)
IOPMCDTA	172	(AC)
IOPMCEND	172	(AC)
IOPMCENT	172	(AC)
IOPMCIND	180	(B4)
IOPMCLNG	85	(55)
IOPMCSYS	156	(9C)
IOPMCTYP	180	(B4)
IOPRMASM	76	X'40'
IOPRMID	69	(45)
IOPRMIDE	69	(45)
IOPRMST	76	(4C)

IOPMACNT

IOPSRCNT

Description: IOP CDS/SCDS Source Entry

Macro ID: HMASMIOP

Created by: Caller of HMASMIO if a read, HMASMIO if a write

How to Find: Immediately after the base IOP Function: Maps the CDS/SCDS Source entry

OFFSET	<u>rs</u>	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTUR	E 172	IOPSRCHT	CDS DATA FOR SOURCE
0	(0)	CHARACTE	R 68		BASE IOP
68	(44)	CHARACTE	R 24	IOPSRCDR	MAX DIRECTORY DATA
68	(44)	UNSIGNED	1		SAME AS IOPHTLVL
ALLOWABI IOPSRCL2 IOPSRCL3	2 - s: 3 - T:	ECOND Hird			0Z40SP63
		CHARACTE			SAME AS IOPRMIDE
69	(45) 	CHARACTE	R 7		SAME AS IOPRMID
76	1	BITSTRIN 1 1111	G 1		SAME AS IOPRMST UNUSED SAME AS IOPRMASM UNUSED
77		CHARACTE	R 8		SAME AS IOPFMIDE
		CHARACTE			SAME AS IOPFMID
84	(54)	BITSTRIN	G 1		SAME AS IOPFMST
85	(55)	UNSIGNED	1	IOPSRLNG	SOURCE LANGUAGE TypeJZ40SP63

IOPSRCNT

CROSS REFERENCE

172	(AC)
68	(44)
92	(5C)
172	(AC)
172	(AC)
0	(0)
179	(B3)
172	(AC)
164	(A4)
172	(AC)
172	(AC)
180	(B4)
85	(55)
156	(9C)
	68 92 172 172 0 179 172 164 172 172 180 85

IOPSRCNT

OFFSE	<u>rs</u>	TYPE	<u>LENGTH</u>	NAME	DESCRIPTION
======	====	=======	======	=======================================	
		LUES ARE. SSEMBLER			•••••
86	(56)	CHARACTE	R 6		UNUSED
92	(5C)	CHARACTE	R 80	IOPSRCFX	FIXED DATA FIELDS
92	(5C)	CHARACTE	R 8		SAME AS IOPBUNT
99	(63)	CHARACTE UNSIGNED	1		SAME AS IOPBUSMD SAME AS IOPBUTYP
IOPBUADI IOPBUDEI	D - A:	DD OF NEW EL OF EXI	ENTRY STING EN	TRY ISTING ENTRY	Z40SP63
100	(64)	CHARACTE	R 56		UNUSED
156	(9C)	CHARACTE	R 8	IOPSRSYS	OPERATING SYSTEM LIB
164	(A4)	CHARACTE	R 8	IOPSRDLB	DISTRIBUTION LIBRARY
				IOPSREND	SRC END
				IOPSRCVR	VARIABLE LISTS
172	(AC)	CHARACTE	R 0	IOPSNTRY	LIST INDICATED BY SETTING FIRST CHAR OF NEXT ENTRY TO IOPEOLST
172	(AC)	CHARACTE	R 8	IOPSRDTA	GENERAL MAP
172	(AC)	CHARACTE	R 7	IOPSRCID	MODID SYSMOD NUMBERS
172	(AC)	UNSTGNED	1	TOPSECND	END OF LIST WHEN FF
				IOPSRCST	
		BITSTRIN			UNUSED
180	(B4)	UNSIGNED	1	IOPSRIND	TYPE ENTRY

IOPSRCNT

IOPMODNT

Description: IOP CDS/SCDS Module Entry

Macro ID: HMASMIOP

Created by: Caller of HMASMIO if a read, HMASMIO if a write

How to Find: Immediately after the base IOP
Function: Maps the CDS/SCDS Module entry

OFFSE	<u>TS</u>	TYPE	LENGTH	NAME	<u>DESCRIPTION</u>
0	(0)	STRUCTUR	E 172	IOPMODNT	CDS DATA FOR MODULES
0	(0)	CHARACTE	R 68		BASE IOP
68	(44)	CHARACTE	R 24	IOPMODDR	MAX DIRECTORY DATA
		UNSIGNED	•		SAME AS IOPHTLVL
	SLE VA 11 - F 12 - S	LUES ARE. IRST ECOND			az40sP63
		CHARACTE CHARACTE			SAME AS IOPRMIDE SAME AS IOPRMID
	(4c) 1 .1.	BITSTRIN 1 1111			SAME AS IOPRMST UNUSED SAME AS IOPRMASM UNUSED
77	(4D)	CHARACTE CHARACTE			SAME AS IOPFMIDE
		CHARACTE	R 7		SAME AS IOPFMID
		BITSTRIN CHARACTE			SAME AS IOPFMST Unused
92	(5C)	CHARACTE	R 80	IOPMODEX	FIXED DATA FIELDS
92	(5C)	CHARACTE	R 8		SAME AS IOPBUNT
		CHARACTE UNSIGNED			SAME AS IOPBUSMD SAME AS IOPBUTYP

IOPMODNT

OFFSETS TYPE LENGTH NAME **DESCRIPTION**

IOPBUADD ~ ADD OF NEW ENTRY

IOPBUDEL - DEL OF EXISTING ENTRY

IOPBUMOD - MODIFICATION TO EXISTING ENTRY

100	(64) CHARACTER	4	IOPMDLEP	MODULE LEPARMS
100	(64) BITSTRING	1	IOPMODF1	LEPARMS BYTE 1
	1		IOPMAPF	APF, AC=1
	.1		IOPMRENT	RE-ENTRANT
	1		IOPMREUS	REUSEABLE
	1		IOPMSCTR	SCATTER LOAD
	1		IOPMOVLY	OVERLAY STRUCTURE
	1		IOPMREFR	REFRESHABLE
	1.		IOPMDC	DOWNWARD COMPATABLE Unused
101	•	1	IOPMODF2	LEPARMS BYTE 2
	1	·	IOPMNE	NOT EDITABLE
	.1		IOPMPAGA	ALIGN2
	11 1111			UNUSED
102	(66) BITSTRING	1	IOPMODF3	LEPARMS BYTE 3
	(66) BITSTRING	1		UNUSED
103	(67) BITSTRING	1	IOPMODF4	LEPARMS BYTE 4
103	(67) BITSTRING	1		UNUSED
104	(68) CHARACTER	60		UNUSED
164	(A4) CHARACTER	8	IOPDLIB	DISTRIBUTION LIBRARY
	(AC) CHARACTER		IOPMDEND	END OF FIXED MOD
172	(AC) STRUCTURE	0	IOPMODVR	VARIABLE LIST
172	(AC) CHARACTER	0	IOPMNTRY	SUB-ENTRY LIST
172	(AC) CHARACTER	8	IOPMDDTA	GENERAL ENTRY MAPPING
172	(AC) CHARACTER	8	IOPLMODS	LOAD MODULE NAMES
172	(AC) CHARACTER	7	IOPMODID	MODID SYSMOD NUMBERS
	(AC) CHARACTER (AC) UNSIGNED			MODID SYSMOD NUMBERSEND OF LIST WHEN FF
172		 1	IOPMODND	
172	(AC) UNSIGNED	 1	IOPMODND	END OF LIST WHEN FF

IOPMODNT IOPMODNT

CROSS	REF	ERENCE
IOPDLIB	164	(A4)
IOPLMODS		
	100	
	100	
IOPMDDTA	172	(AC)
IOPMDEND		
IOPMDIND	180	(B4)
IOPMDLEP	100	(64)
	101	
IOPMNTRY	172	(AC)
IOPMODDR	68	(44)
IOPMODFX	92	(5C)
IOPMODF1	100	(64)
	101	
IOPMODF3	102	(66)
IOPMODF4		
IOPMODID		(AC)
IOPMODND	172	
IOPMODNT	0	
		(B3)
IOPMODVR		
	100	
	101	
IOPMREFR	100	
	100	
IOPMREUS		
IOPMSCTR	100	X'10'

IOPMODNT

IOPDLBNT

Description: IOP CDS/SCDS DLIB Entry

Macro ID: HMASMIOP

Created by: Caller of HMASMIO if a read, HMASMIO if a write

How to Find: Immediately after the base IOP

Function: Maps the CDS/SCDS DLIB entry

OFFSE	TS	TYPE	LENGTH	NAME	<u>DESCRIPTION</u>
0	(0)	STRUCTUR	E 172	IOPDLBNT	CDS DATA FOR DLIBS
0	(0)	CHARACTE	R 68		BASE IOP
68	(44)	CHARACTE	R 24	IOPDLBDR	MAX DIRECTORY DATA
68	(44)	UNSIGNED	1		SAME AS IOPNTLVL
======	====				
					az40sp63
IOPDLBL					
IOPDLBL					
IOPDLBL	C - C	URRENT			
69	(45)	CHARACTE	R 23		UNUSED
9 2	(5C)	CHARACTE			FIXED DATA FIELDS
9 2	(5C)	CHARACTE	R 8		SAME AS IOPBUNT
9 2	(5C)	CHARACTE	R 7		SAME AS IOPBUSMD
		UNSIGNED			SAME AS IOPBUTYP

IOPDLBNT

OFFSE	<u>TS</u>	TYPE	LENGTH	NAME	DESCRIPTION
======	====	======	======	=======	
IOPBUAD IOPBUDE	D - A L - D	DD OF NEW EL OF EXI	ENTRY STING EN		az40sP63 RY
100	(64)	CHARACTE	R 72		UNUSED
		CHARACTE STRUCTUR			
172	(AC)	CHARACTE	R 0	IOPDNTRY	SYSTEM LIBRARY(S) COPIED TO
172	(AC)	CHARACTE	R 8	IOPDSYS	SYLIB NAME
172	(AC)	UNSIGNED	1	IOPDLBND	END OF LIST WHEN FF
180	(B4)	UNSIGNED	1	IOPDLIND	TYPE SUB-ENTRY

IOPDLBNT

CROSS REFERENCE

IOPDLBDR	68	(44)	
IOPDLBFX	92	(5C)	
IOPDLBND	172	(AC)	
IOPDLBNT	0	(0)	
IOPDLBVR	172	(AC)	
IOPDLEND	172	(AC)	
IOPDLIND	180	(B4)	
IOPDNTRY	172	(AC)	
IOPDSYS	172	(AC)	

IOPDLBNT

Section 5: Data Areas 195

IOPSYSNT

Description: IOP CDS/SCDS System Entry

Macro ID: HMASMIOP

Created by: Caller of HMASMIO if a read, HMASMIO if a write

How to Find: Immediately after the base IOP
Function: Maps the CDS/SCDS System entry

OFFSETS	TYPE LENGT	TH NAME	DESCRIPTION
0 (0)	STRUCTURE 25	52 IOPSYSNT	CDS SYSTEM ENTRY
0 (0)	CHARACTER 6	68	BASE IOP
68 (44)	CHARACTER 2	24 IOPSYSDR	MAX DIRECTORY DATA
68 (44)	UNSIGNED	1	SAME AS IOPNTLVL
ALLOWABLE VA IOPSYSL1 - F IOPSYSL2 - S IOPSYSLC - C	IRST ECOND		340SP63
69 (45)	UNSIGNED	1 IOPSCNVL	CONVERSION LEVEL
ALLOWABLE VA IOPSCHV1 - C IOPSCHV2 - C IOPSCHVC - C	ONVERT 1 ONVERT 2		40SP63
70 (46)	SIGNED	2 IOPPEMAX	SYSMOD ELEMENT MAX
72 (48)		1 IOPSYSF1	SYSTEM FLAGS
72 (48)		1 IOPFLGS7 IOPMTSNP	SYSTEM FLAGS NO MTS PURGE AT APPLY

IOPSYSNT

OFFSE	<u>TS</u>	TYPE	LENGTH	NAME	DESCRIPTION
======	====		======	=======	
'0'B IF					
	.1.	 	======	IOPSTSNP	NO STS PURGE AT APPLY
'0'B IF					
	1	• •••		IOPSYDL	DATASET DOWNLEVEL DUE TO UNABLE TO ATTEMPT REWRITE AFTER IN STORAGE
		1		IOPSYNG	ONLY UPDATE DATASET NOT USEABLE DUE TO ERROR DURING REWRITE OF DIRECTORY
73		. 1111 CHARACTE	R 19		UNUSED UNUSED
92	(5c)	CHARACTE	R 160	IOPSYSFX	FIXED DATA FIELDS
92	(5C)	CHARACTE	R 8		SAME AS IOPBUNT
92 99		CHARACTE UNSIGNED			SAME AS IOPBUSMD SAME AS IOPBUTYP
======	=====	=======			
		LUES ARE. DD OF NEW		• • • • • • • • • •	az40SP63
		EL OF EXIS		TRY	D.V.
TOPBUILO	- II	ODIFICATI	OK IO EA	TSIING ENII	N.1
100	(64)	CHARACTE	R 4	IOPSREL	SYSTEM AND RELEASE
104	(68)	CHARACTE	R 1	IOPNUCID	DEFAULT NUCID FOR NUC UPDATE
				IOPSYSID	SYSTEM ID SET BY USER
		CHARACTE:			
252 252	(FC)	CHARACTE: STRUCTUR	R 0 E 0	IOPSYEND IOPSYSVR	CDS SYS END FIXED VARIABLE ENTRIES
					EACH ENTRY
				IOPSYNTR	
252 					END OF LIST
260	(104)	UNSIGNED	1	IOPSYSTP	TYPE SUNENTRY

IOPSYSNT

CROSS REFERENCE

IOPFLGS7	72 (48)
IOPMTSNP	72 X	1801
IOPNUCID	104 (68)
IOPPEMAX	70 (46)
IOPSCHVL	69 (45)
IOPSREL	100 (64)
IOPSTSNP	72 X	'40'
IOPSYDL	72 X	'20'
IOPSYEND	252 (FC)
IOPSYNG	72 X	'10'
IOPSYNTR	252 (FC)
IOPSYSDR	68 (44)
IOPSYSFX	92 (5C)
IOPSYSF1	72 (48)
IOPSYSID	105 (69)
IOPSYSND	252 (FC)
IOPSYSNT	0	(0)
IOPSYSTP	260(1	04)
IOPSYSTR	252 (FC)
IOPSYSVR	252 (FC)

IOPSYSNT

IOPPTFNT

Description: IOP CDS/SCDS SYSMOD Entry

Macro ID: HMASMIOP

Created by: Caller of HMASMIO if a read, HMASMIO if a write How to Find: Immediately after the base IOP

Function: Maps the CDS/SCDS SYSMOD entry

<u>offsets</u>	TYPE	LENGTH	NAME	DESCRIPTION
	STRUCTURE			CDS SYSMOD(PTF) ENTRY
	CHARACTER			BASE IOP
68 (44)	CHARACTER	24	IOPPTFDR	MAX DIRECTORY DATA
	UNSIGNED		===========	SAME AS IOPNTLVL
ALLOWABLE VA IOPPTFL1 - F IOPPTFL2 - S IOPPTFLC - C	IRST ECOND	· • • • • • • •		40SP63
			IOPPTYPE	PTF TYPE
ALLOWABLE VA IOPPUSER - U IOPPAPAR - A IOPPPTF - P IOPPFUNC - F	SER MOD PAR FIX TF FIX	••••••		40SP63
70 (46) 70 (46) 1 .1. 1	CHARACTER BITSTRING 1 1	i 1	IOPPTFF1	PTF ACCEPTED SYSTEM ERROR ENCOUNTERED DURING PROCESSING UNUSED PTF IS SUPED OR DELETED ENTRY ONLY. DATA CONTAINED ONLY IN DIR. NO FIXED OR VARIABLE
•••	1.		IOPBYP	SECTIONS BYPASS USED TO PROCESS THIS SYSMOD

IOPPTFNT IOPPTFNT

OFFSE	TS	TYPE	LENGTH	NAME	DESCRIPTION
	• • •	1		IOPREGEN	PTF DEFAULT APPLIED VIA SYSTEM GENERATION
71	(47)	BITSTRING	3 2	IOPPTFF2	PTF STATUS 2
	1			IOPDELP	PTF HAS DEL PRESENT
	. 1 .			IOPIRQP	PTF HAS IREQS PRESENT
	1			IOPNPRP	PTF HAS NPRE PRESENT
		1		IOPPREP	PTF HAS PRE PRESENT
		. 1		IOPREQP	PTF HAS REQS
		1		IOPSUPP	PTF HAS SUP PRESENT
		1.		IOPJCLP	PTF HAS INLINE JCLIN
		1		IOPLRFP	PTF HAS RELFILES
	111	1 11			UNUSED
		1.		IOPPADDP	PTF ADDED CDS ENTRY
		1		IOPPMDLP	PTF HAS DELETED MODS
73	(49)	BITSTRING	3 1	IOPPTFF3	PTF STATUS 3
	1			IOPSBYP	PTF HAS SUPBY PRESENT IN
======	====	=========	======	=======	

EITHER IOPSBYNO OR VARIABLE SUBENTRIES
IF IOPSBYNO IS BLANK OR ZERO THEN DATA EXISTS
IN VARIABLE SUBENTRIES.
IF IOPDUMMP IS ON THEN IOPSBYNO MUST BE VALID

.1.. IOPDBYP PTF HAS DELBY PRESENT

IF IOPDUMMP IS ON THEN IOPDBYNO IS THE ONLY ADDITIONAL VALID FIELD

	1		IOPFLF	FIRST LEVEL FUNCTION
	1 1111			UNUSED
74	(4A) CHARACTER	7	IOPDBYNO	DELETING FUNCTION
8 1	(51) CHARACTER	7	IOPSBYNO	SUPERCEDING SYSMOD
88	(58) CHARACTER	4		UNUSED
92	(5C) CHARACTER	80	IOPPTFFX	FIXED DATA FIELDS
92	(5C) CHARACTER	8		SAME AS IOPBUNT
92	(5C) CHARACTER	7		SAME AS IOPBUSMD
92	(5C) SIGNED	2	IOPPRELN	FILE NUMBER FROM SYSMOD PTS ONLY
99	(63) UNSIGNED	1		SAME AS IOPBUTYP

IOPPTFNT

IOPQSMIF

Description: IOP CRQ/ACRQ Entry

Macro ID: HMASMIOP

Created by: Caller of HMASMIO if a read, HMASMIO if a write

How to Find: Immediately after the base IOP

Function: Maps the CRQ/ACRQ entry

<u>OFFSETS</u>	TYPE LENGTH	NAME	DESCRIPTION
0 (0)	STRUCTURE 80	IOPQSMIF	CRQ SYSMOD ++IF DATA
0 (0)	CHARACTER 8		ENVIRONMENT
	CHARACTER 7 BITSTRING 1	IOPQSMFM	CRQ SYSMOD FMID NUM UNUSED
8 (8)	CHARACTER 72	IOPQSMLS	CRQ SYSMOD VARIABLE
8 (8)	CHARACTER 7	IOPQSMMM	CRQ SYSMOD REQ NUM

NOTE THAT IF MORE THAN 8 REQS ARE SPECIFIED THEN MULTIPLE RECORDS MUST BE CREATED FOR THE SPECIFIED ENVIRONMENT

8	(8) UNSIGNED	1 IOPQSMND	END OF SUBENTRIES WHEN SET TO IOPEOLST
15	(F) BITSTRING	1	RES. FOR FUTURE USE
16	(10) BITSTRING	1 IOPQSMTP	CRQ SYSMOD SUB TYPE

IOPQSMIF IOPQSMIF

IOPPTSYS

Description: IOP PTS System Entry

Macro ID: HMASMIOP

Created by: Caller of HMASMIO if a read, HMASMIO if a write

How to Find: Immediately after the base IOP

Function: Maps the PTS System entry

OFFSE	<u>TS</u>	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	1132	IOPPTSYS	PTS SYSTEM ENTRY
0	(0)	CHARACTER	68		BASE IOP
68	(44)	CHARACTER	24	IOPPTSDR	PTS SYS DIR DATA
		UNSIGNED	•		SAME AS IOPNTLVL
	LE VA 2 - S	LUES ARE ECOND			
					CONVERSION LEVEL
	2 - C	ONVERT 2			az 40 s p 6 3
70	(46)	SIGNED	2	IOPPTPEM	PEMAX
72	(48)	CHARACTER	20		UNUSED
92	(5C)	CHARACTER		IOPPTSFX	PTS SYS FIXED DATA
92	(5C)	CHARACTER			LRF SPC ALLC IN TRKS
		SIGNED SIGNED	2 2		PRIM ALLOC SECONDARY ALLOC
		SIGNED CHARACTER		IOPDSDIR IOPDSPFX	
124 126	(7E)	SIGNED BITSTRING		IOPSYPLN IOPPTFG1 IOPPTSNP	SMPOUT PAGE LEN FLAG 1 PTS PURGE AT ACCEPT

IOPPTSYS

OFFSETS	TYPE	LENGTH	<u>NAME</u>	DESCRIPTION
		======		
'O'B IF PUR				
'1'B IF NO	PURGE			
				DE 100 DE 200 DE
. 1			IOPPTSNJ	
'O'B IF REJ	AT PST			
'1'B IF NO		•		
		•		
	11 1111			UNUSED
127 (7F) CHARACTE	R 18		UNUSED
145 (91) CHARACTE	R 8	IOPSYASM	ASSEMBLER NAME
153 (99) CHARACTE	R 8	IOPSYASS	ASSEMBLER SYSPRINT
161 (A1) UNSIGNED	1	IOPSYASR	ASSEMBLER RETURN CODE
) CHARACTE	R 100	IOPSYASP	ASSEMBLER PARM
) CHARACTE		IOPSYCOM	COMPRESS NAME
) CHARACTE		IOPSYCOS	COMPRESS SYSPRINT
) UNSIGNED		IOPSYCOR	COMPRESS RETURN CODE
- · · · · · ·) CHARACTE		IOPSYCOP	COMPRESS PARM
) CHARACTE			COPY NAME
) CHARACTE		IOPSYCPS	COPY SYSPRINT
395 (18B) UNSIGNED	1	IOPSYCPR	COPY RETURN CODE
396 (18C) CHARACTE	R 100	IOPSYCPP	COPY PARM
496 (1F0) CHARACTE	R 8	IOPSYLKD	LINKEDIT NAME
504 (1F8) CHARACTE		IOPSYLKS	LKED SYSPRINT
512 (200) UNSIGNED		IOPSYLKR	LKED RETURN CODE
) CHARACTE		IOPSYLKP	
) CHARACTE		IOPSYSUP	
) CHARACTE		IOPSYSPS	IOSUP SYSPRINT
629 (275) UNSIGNED	1	IOPSYSPR	IOSUP RETURN CODE
630 (276) CHARACTE	R 100	IOPSYSPP	IOSUP PARM
) CHARACTE	R 8	IOPSYUPD	UPDATE NAME
) CHARACTE		IOPSYUPS	UPDTE SYSPRINT
) UNSIGNED	-	IOPSYUPR	UPDTE RETURN CODE
) CHARACTE		IOPSYUPP	UPDTE PARM
) CHARACTE		IOPSYZAP	
) CHARACTE			
863 (35F) UNSIGNED	1	IOPSYZPR	SUPERZAP RETURN CODE
864 (360) CHARACTE	R 100	IOPSYZPP	SUPERZAP PARM
964 (304) CHARACTE	R 168		UNUSED
		•	IOPPSEND	
1132 (46C	J STRUCTUR	.E 0	IOPPTSVR	VARIABLE ENTRIES
	 			

IOPPTSYS

<u>offsets</u>	TYPE LENGTH	NAME	DESCRIPTION
1132 (46C)	CHARACTER 0	IOPPTNTR	
1132 (46C)	CHARACTER 8		
1132 (46C)	CHARACTER 7		FMID NUMBER
1132 (46C)	CHARACTER 4	IOPPTREL	SREL
1132 (46C)	UNSIGNED 1	IOPPTSND	END OF LIST WHEN EQUAL TO IOPEOLST
1140 (474)	UNSIGNED 1	IOPPTIND	TYPE INDICATOR

IOPPTSYS

```
CROSS REFERENCE
IOPDSDIR
             96 (60)
IOPDSPFX
             98 (62)
IOPDSPRM
             92 (5C)
             94 (5E)
IOPDSSEC
IOPDSSPC
             92 (5C)
IOPPCNVL
             69 (45)
IOPPSEND
           1132(46C)
IOPPTFG1
            126 (7E)
IOPPTFMD
           1132(46C)
IOPPTIND
           1140(474)
IOPPTNTR
           1132(46C)
IOPPTPEM
             70 (46)
           1132(46C)
IOPPTREL
IOPPTSDR
             68 (44)
             92 (5C)
IOPPTSFX
           1132(46C)
IOPPTSND
            126 X'40'
IOPPTSNJ
            126 X'80'
IOPPTSNP
IOPPTSVR
           1132(46C)
IOPPTSYS
              0 (0)
            145 (91)
IOPSYASM
IOPSYASP
            162 (A2)
            161 (A1)
IOPSYASR
            153 (99)
IOPSYASS
IOPSYCOM
            262(106)
            279(117)
IOPSYCOP
IOPSYCOR
            278(116)
IOPSYCOS
            270(10E)
IOPSYCPP
            396(18C)
            395(18B)
IOPSYCPR
IOPSYCPS
            387(183)
IOPSYCPY
            379(17B)
            496(1F0)
IOPSYLKD
IOPSYLKP
            513(201)
IOPSYLKR
            512(200)
            504(1F8)
IOPSYLKS
IOPSYPLN
            124 (7C)
IOPSYSPP
            630(276)
IOPSYSPR
            629(275)
IOPSYSPS
            621(26D)
IOPSYSUP
            613(265)
IOPSYUPD
            730(2DA)
IOPSYUPP
            747(2EB)
            746(2EA)
IOPSYUPR
IOPSYUPS
            738(2E2)
IOPSYZAP
            847(34F)
IOPSYZPP
            864(360)
IOPSYZPR
            863(35F)
IOPSYZPS
            855(357)
```

IOPPTSYS

IOPBPDS

Description: IOP PDS BLDL Entry

Macro ID: HMASMIOP

Created by: Caller of HMASMIO if a read, HMASMIO if a write

How to Find: Immediately after the base IOP

Function: Maps thr PDS BDL entry

OFFSE	<u>OFFSETS</u>		LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTUR	E 89	IOPBPDS	PDS BLDL INFO
		CHARACTE			BASE IOP
				IOPBTTRT	TTR OF 1ST TEXT BLOCK
71	(47)	CHARACTE	R 1	IOPBZERO	ZERO
72	(48)	A-ADDRES	s 3	IOPBTTRN	NOTE LIST OR SCTR TRANSLATION TABLE
75	(4B)	CHARACTE	R 1	IOPBNL	NUMBER OF ENTRIES IN IOPBTTRN
76	(4C)	BITSTRIN	 G 1	IOPBLEP1	FIRST BYTE OF LE PARM
	1			IOPBRENT	RE-ENTRANT
	. 1 .			IOPBREUS	REUSEABLE
	1			IOPBOVLY	IN OVERLAY STRUCTURE
		 1			TESTRAN
		. 1		IOPBOL	ONLY LOADABLE
		1		IOPBSCTR	IN SCATTER FORMAT
		11			UNUSED BY HMASMP
77	(4D)	BITSTRIN	G 1	IOPBLEP2	2ND BYTE OF LE PARMS
	1			IOPBDC	DC ATTRIB. IF OFF
	. 11	1			UNUSED BY HMASMP
		. 1		IOPBNE	NOT EDITABLE
		1		IOPBTEST	TESTRAN SYMBOLS IN
		1.		IOPBLEF	LINKAGE EDITOR F USED
		1		IOPBREFR	REFRESHABLE
78	(4E)	A-ADDRES	S 3	IOPBSTOR	TOT CONTIG MAIN
					STORJZ67SP00
8 1	(51)	SIGNED	2	IOPBFTBL	LN OF 1ST TXT BLK
83	(53)	A-ADDRES	s 3	IOPBSEPA	ENTRY POINT ADDR
86	(56)	A-ADDRES	s 3		LINKAGE EDITOR ASSIGNED
					ORIGIN OF FIRST BLOCK OF
					TEXT(OS USE OF FIELD)
				IOPBFTB0	FLAG BYTES(AOS USE)
86	(56)	BITSTRIN	G 1	IOPBFTB1	FIRST BYTE
	1			IOPBAOSL	PROCESSED BY VS LE
	.1.				RESERVED
	1	• • • • •		IOPBPAGA	PAGE ALIGNMENT REQ.

IOPBPDS

OFFSI	ETS	TYPE	LENGTH	NAME	DESCRIPTION
		1		IOPBSSI	SSI INFO PRESENT
		. 1		IOPBAPFP	APF INFO PRESENT
		111			RESERVED
87	(57)	CHARACT	ER 1	IOPBFTB2	RESERVED
88	(58)	CHARACT	'ER 1	IOPBFTB3	RESERVED
89	(59)	CHARACT	ER 0	IOPECEND	END OF BASIC SECTION

IOPBPDS

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IOPBAOSL	86	X'80'
IOPBAPFP	86	X'08'
IOPBCEND	89	(59)
IOPBDC	77	X'80'
IOPBFTBL	8 1	(51)
IOPBFTB0	86	(56)
IOPBFTB1	86	(56)
IOPBFTB2	87	(57)
IOPBFTB3	88	(58)
IOPBLEF	77	
IOPBLEP1		(4C)
IOPBLEP2	77	(4D)
IOPBNE	77	X'08'
IOPBNL	75	(4B)
IOPBOL	76	X'08'
IOPBOVLY	76	X'20'
IOPBPAGA	86	X'20'
IOPBPDS	0	(0)
IOPBREFR	77	X'01'
IOPBRENT	76	X'80'
IOPBREUS	76	X'40'
IOPBSCTR	76	X'04'
IOPBSEPA	83	(53)
IOPBSSI	86	X'10'
IOPBSTOR	78	(4E)
IOPBTEST	77	X'04'
IOPBTTRN	72	(48)
IOPBTTRT	68	
IOPBZERO	71	(47)

IOPBPDS

MCB

<u>Description</u>: Modification Control Buffer

Macro ID: HMASMMCB

CREATED BY: The PARSE Routines

How to Find: Passed as a Parameter to HMASMMPD

<u>Function</u>: Defines the buffer area to be setup from the SMPPTFIN

modification at RECIEVE time, or from the SMPPTS SYSMOD

entry at APPLY and ACCEPT time.

OFFSETS	OFFSETS TYPE LENGTH NAME DESC		DESCRIPTION		
0	(0)	STRUCTURE	11	MCBPTFMP	(MCBTYPE=MCBPTFTP)
_		UNSIGNED	1	MCBTYPE	TYPE RECORD RETURNED
1	(1) 	CHARACTER	R 7	MCBPNO	SYSMOD NUMBER
8	(8)	SIGNED	2	MCBPRELN	FILES
10	(A)	UNSIGNED	1	MCBPTP	SYSMOD TYPE

MGP

<u>Description</u>: SMP HMASMMSG Parameter List

Macro ID: HMASMMGP Created by: Caller of HMASMMSG

How to Find: First parameter of HMASMMSG

Function: This parameter list contains the information necessary

for the HMASMMSG module to produce the messages (e.g. HMA201) to be written to either the SMPOUT or

SMPLOG datasets.

<u>offsets</u>	TYPE	LENGTH	NAME	DESCRIPTION
0 (0) STRUCTUR	E 16		MESSAGE PARAMETER LIST
0 (0) CHARACTE			FIXED LENGTH OF MGP
0 (0) CHARACTE	R 6	MGPCLEAR	TO ZERO MSG NUMS
) SIGNED	2 2		PRIMARY MSG NUMBER SECONDARY MSG NUMBER
6 (6 1. .1 		2	MGPMGN03	
	UNSIGNED CHARACTE	R 3	MGPTYPE	MESSGAE SEVERITY FOR BDY ALIGNMENT
12 (C) CHARACTE	R 4	MGPVAR	VARIABLE PART OF MGP
12 (C) A-ADDRES	s 4	MGPVARPT	PTRS TO MESSAGE VARIABLE PARTS

MGP

MGP

HMASMMGP	0	(0)
MGPCLEAR	0	(0)
MGPFIXED	0	(0)
MGPFLAGS	6	(6)
MGPHLDS	6	X'10'
MGPLIST	6	X'40'
MGPMGNO1	0	(0)
MGPMGNO2	2	(2)
MGPMGN03	4	(4)
MGPPRINT	6	X'80'
MGPRPT	6	X'20'
MGPTYPE	8	(8)
MGPVAR	12	(C)
MGPVARPT	12	(C)
MGPWTO	6	X'04'
MGPWTOR	6	X'08'

MGP

PRL

<u>Description</u>: Output Mapping For Write Operations

Macro ID: HMASMPRL

Created by: Caller of HMASMIO

How to Find: Pointed to by IOPBUFAD

Function: This maps the output area for SMPOUT, LIST, RPT and PUNCH

OFFSE'	<u>IS</u>	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTUR	E 10	HMASMPRL	PRINTER AND LOG BUFFER MAP
0	(0)	SIGNED	2	PRLRLEN	RECORD LENGTH
2	(2)	CHARACTE	R 2	PRLSPAN	SPAN INFORMATION (O FOR LOG)
2	(2)	BITSTRIN	G 1	PRLFLGS	FLAGS FOR PRINT USE
	1	• • • • •		PRLHEAD	INDICATES SAVE THIS SUB
	. 1 .			PRLHEADO	INDICATES SUB HEADING OFF
	1	• • • • •		PRLBLANK	INDICATES BLANK LINE PRINT
		1 1111			UNUSED
4	(4)	CHARACTE	R 3	PRLDATE	DATE IN YYDDDF
4	(4)	A-ADDRES	s 3	PRLHDADR	ADDR OF HEADING RECORD
7	(7)	CHARACTE	R 3	PRLTIME	TIME IN HHMMSS
7	(7)	CHARACTE			FILLER
9	(9)	CHARACTE	R 1	PRLCONC	PRINTER CONTROL
					CHARACTER
10	(A)	CHARACTE	R 0	PRLEND	

PRL

HMASMPRL	0	(0)
PRLBLANK	2	X'20'
PRLCONC	9	(9)
PRLDATE	4	(4)
PRLEND	10	(A)
PRLFLGS	2	(2)
PRLHDADR	4	(4)
PRLHEAD	2	X'80'
PRLHEADO	2	X'40'
PRLRLEN	0	(0)
PRLSPAN	2	(2)
PRLTIME	7	(7)

PRL

RDP

<u>Description</u>: Parameter List to HMASMRDS (Sequential Directory Read)

Macro ID: HMASMRDP

Created by: Caller of HMASMRDS

How to Find: First parameter into HMASMRDS

<u>Function</u>: This parameter contains the information necessary for HMASMRDS (Sequential Directory Read) to perform a sequential read through the directory entries of a

specified PDS.

<u>offsets</u>	TYPE	LENGTH	NAME	DESCRIPTION
0 (0)	STRUCTURE	26	HMASMRDP	HMASMRDS PARAMETER LIST
, , , ,	UNSIGNED	•	RDPDSID	DATA SET TO BE ACCESSED

1 (1) UNSIGNED 1 RDPFUNCT FUNCTION TO BE PERFORMED

2 (2) UNSIGNED 1 RDPRETRN RETURN CODE

RDP

OFFSE	<u>rs</u>	TYPE	LENGTH	<u>NAME</u>	DESCRIPTION
======			======		
RDPGOOD RDPEOF RDPNTOPI RDPNTCLS	- FI - N(- U) - U)	LUES ARE. UNCTION COMORE ENVIOLEMENT VABLE TO VABLE TO VO ERROR	OMPLETED TRIES OPEN DCB	в	•••••
3	(3)	UNSIGNED	1		UNUSED
4	(4)	A-ADDRES	s 4	RDPBUFAD	ADDRESS OF AREA TO RECEIVE NEXT DIRECTORY ENTRY. THE AREA POINTED TO MUST BE AT LEAST 75 CHARACTERS TO HANDLE THE MAX ENTRY SIZE PLUS 1 EXTRA BYTE FOR THE END OF LIST MARKER
8	(8)	A-ADDRES	s 4	RDPWKAD	RESERVED FOR FUTURE USE TO CONTAIN ADDR OF RDS GETMAINED WORK AREA WHEN MADE RE-ENTRANT
12	(C)	SIGNED	4	RDPENTS	RESERVED FOR FUTURE USE TO RETURN A COUNT OF THE NUMBER OF DIRECTORY ENTRIES IN THE DATA SET
16	(10)	SIGNED	4	RDPALLOC	DIRECTORY BLOCKS ALLOCATED
20	(14)	SIGNED	4	RDPUSED	DIRECTORY BLOCKS USED
2 4	(18)	BITSTRIN	G 2	RDPTYPE	RESERVED FOR FUTURE USE TO SPECIFY THE TYPES OF ENTRIES TO BE READ AND

RDP

RETURNED

HMASMRDP	0	(0)
RDPALLOC	16	(10)
RDPBUFAD	4	(4)
RDPDSID	0	(0)
RDPENTS	12	(C)
RDPFUNCT	1	(1)
RDPRETRN	2	(2)
RDPTYPE	24	(18)
RDPUSED	20	(14)
RUDMKYU	A	(8)

RDP

<u>Description</u>: Parameter List To HMASMSCN (Scan)

Macro ID: HMASMSCP

Created by: Caller of HMASMSCN

How to Find: First Parameter into HMASMSCN

<u>Function</u>: This parameter list contains a pointer to the input string, the length of the string, and the scan criteria

necessary for HMASMSCN to perform a SCAN.

<u>offsets</u>	TYPE	LENGTH	NAME	DESCRIPTION
0 (0)	STRUCTURI	E 26	HMASMSCP	SCAN PARM LIST
0 (0)	A-ADDRESS	5 4	SCPCHAR	PTR TO STRING TO SCAN
4 (4)	A-ADDRESS		SCPSRCH	PTR TO FIRST DSCAN
8 (8)	A-ADDRESS	5 4	SCPWKAR	PTR TO SCANS RENT. SAVE AREA
12 (C)	A-ADDRESS	5 4	SCPIORTN	ADDR OF USER I/O ROUTINE
16 (10)	A-ADDRESS	5 4	SCPIOPAD	ADDR OF PARM FOR I/O ROUTINE
				INPUT RECORD LENGTH
22 (16)	SIGNED	2	SCPPMLN	PASSBACK LENGTH
	BITSTRING	3 1	SCPEOR	FLAG BYTE CONTINUATION CHECK
			SCPHOCT	
			SCPCOMNT	CHECK FOR COMMENT DELIMITERS
• • •	1		SCPRTERR	ERR DETECTED BY ROUT (SET BY ROUT)
•••	. 1		SCPNOSUC	AFTER CALL TO ROUT PROCESS ALT DSCAN NOT SUCC DSCAN
	1		SCPNORT	DO NOT CALL ROUT
		1	SCPRETRN	RETURN CODE FROM SCAN OR ROUT
25 (19)	UNSIGNED	1	SCPRET	SAME AS SCPRETRN

HMASMSCP	0	(0)
SCPCHAR	0	(0)
SCPCOMNT	24	X'20'
SCPCONT	24	X'80'
SCPEOR	24	(18)
SCPINLN	20	(14)
SCPIOPAD	16	(10)
SCPIORTN	12	(C)
SCPNOCT	24	X'40'
SCPNORT	24	X'04'
SCPNOSUC	24	X'08'
SCPPMLN	22	(16)
SCPRET	25	(19)
SCPRETRN	25	(19)
SCPRTERR	24	X'10'
SCPSRCH	4	(4)
SCPWKAR	8	(8)

SCP

SET

Description: SMP Select/Exclude Table

Macro ID: HMASMSET
Created by: HMASMDRV

How to Find: Pointed to by CCASETAD

Function: Lists the modifications that are being selected or

included for the function being performed.

OFFSET	<u>s</u> .	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	12	HMASMSET	
0	(0)	CHARACTE	10	SELSTENT	SE LIST ENTRY
0		BITSTRING	2	SELSTFLG	SE TYPE ENTRY BITS UNUSED
		1 .		SEMCS	PTS MCS ENTRY
		1		SESMD	SYSMOD ENTRY
	1			SESRC	SOURCE ENTRY
	.1			SEDLB	DLIB ENTRY
	1.			SEMOD	DLIB MODULE ENTRY
	1			SEMAC	MACRO ENTRY
		1		SELMD	TGT LMOD ENTRY
		.1		SEASM	ASSEMBLY ENTRY
		1.		SEFMD	CRQ FMID ENTRY
		1		SESYS	SYSTEM ENTRY
2	(2)	CHARACTER	₹ 8	SENAME	SEL/EXC ELEMENT ID
2	(2)	CHARACTER	t 7	SESMDNO	SYSMOD NUMBER
2	(2)	CHARACTER	t 7	SEPTFNO	SYMOD NUMBER
9	(9)	CHARACTER	1		BLANK IF SYSMOD NUM
10	(A)	BITSTRING	; 1	SEFLAGS	FLAG BYTE
	1	• • • •		SEGROUP	GROUP OPTION
				SESELECT	SELECT OPTION
	1 .			SEEXCLUD	EXCLUDE OPTION
	1			SENOJCL	NO JCLIN FOR SYSMOD
		1		SEFMID	FMID OPTION
		.11.			UNUSED
		1		SEFOUND	ENTRY FOUND
11	(B)	BITSTRING	1	SEFLAG2	RESERVED FOR GENERAL USE
	1			SEFLAG2A	
	. 1			SEFLAG2B	
	1 .			SEFLAG2C	
	1			SEFLAG2D	
		1		SEFLAG2E	
		.1		SEFLAG2F	
		1.		SEFLAG2G	
		1		SEFLAG2H	

SET

HMASMSET	0	(0)
SEASM	1	X'04'
SEDLB	1	X'40'
SEEXCLUD	10	X'20'
SEFLAGS	10	(A)
SEFLAG2	11	(B)
SEFLAG2A	11	X'80'
SEFLAG2B	11	X'40'
SEFLAG2C	11	X'20'
SEFLAG2D	11	X'10'
SEFLAG2E	11	X'08'
SEFLAG2F	11	X'04'
SEFLAG2G	11	X'02'
SEFLAG2H	11	X'01'
SEFMD	1	X'02'
SEFMID	10	X'08'
SEFOUND	10	X'01'
SEGROUP	10	X'80'
SELMD	1	X'08'
SELSTENT	0	(0)
SELSTFLG	0	(0)
SEMAC	1	X'10'
SEMCS	0	X'02'
SEMOD	1	X'20'
SENAME	2	(2)
SENOJCL	10	X'10'
SEPTFNO	2	(2)
SESELECT	10	X'40'
SESMD	0	X'01'
SESMDNO	2	(2)
SESRC	1	X'80'
SESYS	1	X'01'

SET

SPL

<u>Description</u>: Parameter List To HMASMSUB (SMP General Subroutine)

Macro ID: HMASMSPL

Created by: Caller of HMASMSUB

How to Find: First Parameter into HMASMSUB

<u>Function</u>: This parameter contains the SMP subfunction, such as "pack the DLIB name", to be executed by

HMASMSUB.

<u>OFFSETS</u>	TYPE LENGTH	NAME	DESCRIPTION
0 . (0)	STRUCTURE 5	HMASMSPL	HMASMSUB PARAMETER LIST
0 (0)	A-ADDRESS 4	SPLPMAD	ADDR OF PARAMETER LIST FOR THE SPECIFIED SUBROUTINE
4 (4)	UNSIGNED 1	SPLFUNCT	SUBROUTINE DESIRED

SPL

TSL

<u>Description</u>: SMP Table Subroutine Parameter List

Macro ID: HMASMP15

Created by: Caller of HMASMTSB

How to Find: First parameter into HMASMTSB

<u>Function</u>: This area contains the information that specifies the subroutine function and parameter list for HMASMTSB. For each

function, there is a seperate parameter list mapping.

<u>OFFSETS</u>	TYPE	LENGTH	NAME	DESCRIPTION
0 (0	STRUCTURE	10	TSLPARMS	
0 (0	A-ADDRESS	4	TSLTBLXP	PTR TO TBLXPARM
4 (4) A-ADDRESS	4	TSLPMLAD	PARM LIST FOR THE TSB FUNC
8 (8	UNSIGNED	1	TSLFUNCT	TSB FUNCTION CODE
9 (9	UNSIGNED	1	TSLRETRN	TSB RETURN CODE

TSL TSL

TSLICTSR

<u>Description</u>: SMP Table Subroutine Parameter List

Macro ID: HMASMP15

Created by: Caller of HMASMTSB

How to Find: Pointed to by TSLPMLAD.

Function: This area contains the information that is used by HMASMTSB

to search the ICT for a specified SYSMOD entry.

OFFSETS	<u>:</u>	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURI	E 14	TSLICTSR	
0	(0)	CHARACTE	R 7	TSLISMD	SYSMOD NAME TO SEARCH FOR
7	(7)	CHARACTE	R 1	TSLIOPTF	(INPUT) SEARCH CONTROL FLAGS
	1			TSLIONXT	(INPUT) ON GET NEXT MATCHING ENTRY
	. 11	1 1111			UNUSED
8	(8)	A-ADDRESS	5 4	TSLICTP	(OUTPUT) ICT ENTRY
12	(C)	CHARACTE	R 1	TSLICTF	(OUTPUT) ICT SEARCH RESULTS FLAGS
	1			TSLIFND	SYSMOD FOUND IN THE ICT
	. 1 .	• • • • •		TSLIOK	FOUND AS GO SYSMOD IN ICT
	1	• • • • •		TSLISUP	FOUND AS A SUP'ED SYSMOD IN ICT
	• • • '	1		TSLIDEL	SYSMOD DELETED IN THE
		. 1		TSLIDLE	EXPLICIT DELETE
		1		TSLIDLI	IMPLICIT DELETE
		1.		TSLINOG	NOGO
		1			UNUSED
13	(D)	BITSTRING	5 1		UNUSED

TSLICTSR TSLICTSR

TSLICTF	12	(C)
TSLICTP	8	(8)
TSLICTSR	0	(0)
TSLIDEL	12	X'10'
TSLIDLE	12	X'08'
TSLIDLI	12	X'04'
TSLIFND	12	X'80'
TSLINOG	12	X'02'
TSLIOK	12	X'40'
TSLIONXT	7	X'80'
TSLIOPTF	7	(7)
TSLISMD	0	(0)
TSLISHP	12	X1201

TSLICTSR

TSLLSTSR

<u>Description</u>: SMP Table Subroutine Parameter List

Macro ID: HMASMP15

Created by: Caller of HMASMTSB

How to Find: Pointed to by TSLPMLAD.

<u>Function</u>: This area contains the information that is used by HMASMTSB to search the ICT for a specified SYSMOD name as an entry in a

PTF index list.

OFFSET	<u>'\$</u>	TYPE]	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTURE	16	TSLLSTSR	
0	(0)	CHARACTER	7	TSLLSMD	SYSMOD NAME TO SEARCH FOR
7	(7)	CHARACTER	1	TSLLOPTF	(INPUT) SEARCH CONTROL FLAGS
	1	• • • • •		TSLLONXT	(INPUT) ON GET NEXT MATCHING ENTRY
	. 11	1 1111			UNUSED
8	(8)	SIGNED	4	TSLLOFST	OFFSET OF CHAIN WITHIN ENT
12	(C)	A-ADDRESS	4	TSLLRTNP	TSB RETURN PTR TO ENTRY

TSLLSTSR

TSLGET

<u>Description</u>: SMP Table Subroutine Parameter List

Macro ID: HMASMP15

Created by: Caller of HMASMTSB

How to Find: Pointed to by TSLPMLAD.

<u>Function</u>: This area contains the information that is used by HMASMTSB to get a SYSMOD entry from the specified data set (SMPPTS, SMPCDS,

or SMPACDS).

OFFSET	<u>'S</u>	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTUR	E 13	TSLGET	
0	(0)	CHARACTE	R 7	TSLGSMD	SYSMOD NAME TO SEARCH FOR
7	1	CHARACTE	R 1	TSLGOPTF	·
		1		TSLGOMSG	ISSUE MESSAGE IF NOT FOUND ON CDS
		. 1		TSLGOXTD	GET EXTENDED ENTRY, NOT BLDL UNUSED
8	(8)	A-ADDRES	s 4	TSLGIOPP	(IMPUT/OUTPUT) IOP TO USE ON CDS
12	(C)	UNSIGNED	1	TSLGDSID	(INPUT) IOP DSID FOR THE GET

TSLGET

TSLSICDS

<u>Description</u>: SMP Table Subroutine Parameter List

Macro ID: HMASMP15

Created by: Caller of HMASMTSB

How to Find: Pointed to by TSLPMLAD.

Function: This area contains the information that is used by HMASMTSB

to search for a specified SYSMOD in the ICT and/or in the

SMPCDS/SMPACDS.

OFFSET	<u>s</u>	TYPE	LENGTH	NAME	DESCRIPTION
0		STRUCTUR		TSLSICDS	
0				TSLSSMD	SYSMOD NAME TO SEARCH
7	(7)	CHARACTE	R 1	TSLSOPTF	(INPUT) SEARCH CONTROL FLAGS
	1			TSLSOICT	SEARCH THE ICT
	. 1 .			TSLSOCDS	SEARCH THE (A)CDS
	1			TSLSOALL	SEARCH (A)CDS EVEN IF IN
	• • •	1		TSLSOMSG	ISSUE MESSAGE IF NOT FOUND ON CDS
	• • •	. 1		TSLSOXTD	GET EXTENDED ENTRY, NOT BLDL
		111			UNUSED
8	(8)	A-ADDRES	s 4	TSLSICTP	(OUTPUT) ICT ENTRY
12					(IMPUT/OUTPUT) IOP TO USE ON CDS
16	(10)	CHARACTE	R 1	TSLSICTF	(OUTPUT) ICT SEARCH RESULTS FLAGS
	1			TSLSIFND	SYSMOD FOUND IN THE ICT
	.1.			TSLSIOK	FOUND AS GO SYSMOD IN
	1	• • • •		TSLSISUP	FOUND AS A SUP'ED SYSMOD IN ICT
	• • •	1		TSLSIDEL	SYSMOD DELETED IN THE
		. 1		TSLSIDLE	EXPLICIT DELETE
		1		TSLSIDLI	IMPLICIT DELETE
		1.		TSLSINOG	NOGO
	. , .	1		TSLSISLS	SUPE BY SYSMOD IN ICT,
					IF SET, TSLICTP WILL
					POINT TO SUPING PTF
					ENTRY AND TSLISUP ON
		BITSTRING			UNUSED
18	(12)	CHARACTE	R 1	TSLSCDSF	(OUTPUT) CDS SEARCH
					RESULTS FLAGS
	1	• • • • •		TSLSCFND	SYSMOD FOUND IN THE CDS

TSLSICDS

OFFSE	TS TYPE	LENGTH	NAME	DESCRIPTION
	.1		TSLSCOK	FOUND AS GO SYSMOD IN CDS
	1		TSLSCSUP	FOUND AS A SUP'ED SYSMOD IN CDS
	1		TSLSCDEL	SYSMOD DELETED IN THE
	1			RESERVED
	1			RESERVED
	1.		TSLSCERR	IN ERROR
	1		TSLSDUM	DUMMY ONLY ENTRY
19	(13) BITSTRIN	G 1		UNUSED

TSLSICDS

CROSS REFERENCE 18 X'10' TSLSCDEL 18 (12) TSLSCDSF TSLSCERR 18 X'02' 18 X'80' TSLSCFND 18 X'40' TSLSCOK 18 X'20' TSLSCSUP TSLSDUM 18 X'01' TSLSICDS 0 (0) TSLSICTF 16 (10) TSLSICTP 8 (8) 16 X'10' TSLSIDEL 16 X'08' TSLSIDLE 16 X'04' TSLSIDLI 16 X'80' TSLSIFND 16 X'02' TSLSINOG 16 X'40' TSLSIOK 12 (C) TSLSIOPP 16 X'01' TSLSISLS 16 X'20' TSLSISUP 7 X'20' TSLSOALL 7 X'40' TSLSOCDS 7 X'80' TSLSOICT 7 X'10' TSLSOMSG 7 (7) TSLSOPTF 7 X'08' TSLSOXTD TSLSSMD 0 (0)

TSLSICDS

TSLENTSR

<u>Description</u>: SMP Table Subroutine Parameter List

Macro ID: HMASMP15

Created by: Caller of HMASMTSB

How to Find: Pointed to by TSLPMLAD.

Function: This area contains the information that is used by HMASMTSB

to search a SYSMOD IOP for a given sub-entry type.

OFFSET	<u>:s</u>	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTUR	E 16	TSLENTSR	
0 1 2	(1) (2) 1	UNSIGNED CHARACTE	1 R 1	TSLETYPE TSLEVER# TSLEOPTF TSLEONXT	SYSMOD SUB-ENTRY TYPE (INPUT) SEARCH CONTROL FLAGS (INPUT) ON GET NEXT MATCHING ENTRY UNUSED
 4		BITSTRING A-ADDRES:		TSLENMEP	UNUSED
8	(8)	A-ADDRES:	s 4	TSLEBGNP	(INPUT) BEGIN PTR, USED AS START IF TSLEOBGN ON
12	(C)	A-ADDRES:	5 4	TSLEFNDP	(INPUT/OUTPUT) WILL CONTAIN PTR TO FOUND ENTRY, IF TSLEONXT ON, SEARCH CONTINUES AT NEXT ENTRY IF NOT FOUND WILL BE SET TO TSLEBGNP

TSLENTSR

TSLMFUNC

<u>Description</u>: SMP Table Subroutine Parameter List

Macro ID: HMASMP15

Created by: Caller of HMASMTSB

How to Find: Pointed to by TSLPMLAD.

<u>Function</u>: This area contains the information that is used by HMASMTSB to to issue message HMA370I if the SYSMOD passed is a function.

OFFSET:	<u>s</u>	TYPE	LENGTH	NAME	DESCRIPTION
0	(0)	STRUCTUR	E 8	TSLMFUNC	
0	(0)	UNSIGNED	1	TSLMTYPE	SYSMOD TYPE (IOPPTYPE FORMAT)
1	(1)	CHARACTE	R 7	TSLMSMD	SYSMOD THAT FAILED

TSLMFUNC

UXP

Description: HMASMP general user exit parameter list

Macro ID: HMASMUXP

Created by: HMASMUXC, SMP user exit interface routine

How to Find: Parameter to all user exits

Function: This parameter list privides the communication area

between HMASMP and all user exits.

OFFSET	<u>rs</u>	TYPE L	<u>ENGTH</u>	NAME	DESCRIPTION
0	(0)	STRUCTURE	44	HMASMUXP	
0 2	(0)	SIGNED CHARACTER	2 2	UXPUXNUM	USER EXIT IDENTIFICATION UNUSED
4	(4)	CHARACTER	8	UXPUXNAM	USER EXIT NAME
12	(C)	A-ADDRESS	4	UXPUXAD	USER EXIT ADDRESS
16	(10)	CHARACTER	8	UXPFUNCT	SMP FUNCTION IN PROCESS
24	(18)	A-ADDRESS	4	UXPPRMAD	ADDR OF USER EXIT PARM LIST
28	(1C)		4	UXPLOJAD	FOR USE BY USER EXITS
32	(20)			UXPLOEAD	FOR USE BY USER EXITS
36	(24)	A-ADDRESS	4	UXPCTBAD	ADDR OF SMP CONTROL BLOCKS
40	(28)	A-ADDRESS	4	UXPMODAD	ADDR OF SMP MODULES
0	(0)	STRUCTURE	8 1	UX001PRM	
0	(0)	UNSIGNED	1	UX001RC	SET TO UX001EOF AT END OF FILE
1	(1)	CHARACTER	80	UX001RCD	SMPPTFIN RECORD

UXP

HMASMUXP	0	(0)
UXPCTBAD	36	(24)
UXPFUNCT	16	(10)
UXPLOEAD	32	(20)
UXPLOJAD	28	(1C)
UXPMODAD	40	(28)
UXPPRMAD	24	(18)
UXPUXAD	12	(C)
UXPUXNAM	4	(4)
UXPUXNUM	0	(0)
UX001PRM	0	(0)
UX001RC	0	(0)
UX001RCD	1	(1)

UXP

SECTION 6: DIAGNOSTIC AIDS

This section contains the following information to aid the user in diagnosing SMP errors:

- A cross reference listing of external symbols, the SMP modules that use them, and the type of usage (read, write, compare, etc.). The listing of symbols includes SMP message numbers, which are in the format HMAnnnI, where nnn=the message number. When the message is produced by SMP, the I in the seventh position is replaced by a severity code of:
 - 0 informational
 - 1 warning
 - 2 error
 - 3 severe error
 - 4 terminating error

The message text is contained in the module HMASMDC1.

<u>Note</u>: For a further description of SMP messages and the actual text, refer to the chapter on SMP Messages in the <u>OS/VS System Modification Program (SMP) System Programmer's Guide</u>, GC28-0673.

- A cross reference listing of system macros and SMP data area macros, the SMP modules that issue them, and the number of times they are issued per module.
- Register conventions

PEGISTER CONVENTIONS

The following register conventions are used by SMP.

Register	Use
1 1	Points to the parameter list to be
i 11	Points to HMASMCCA.
13	Points to the save area.
1 14	Return address.
15	Return code.

YMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCES
ACRODR	HMASMIO	D								
, ADDR ADDR LSTO	HMASMDC1 HMASMDC1 HMASMIO	D D								
EJECT	HMASMUPD HMASMAAR	R	HMASMZAP HMASMAR3	R DRW	HMASMASM	R	HMASMCIL	DRW	HMASMCOM	DRW
	HMASMCPI HMASMLCC	DRW DRWC	HMASMDRV HMASMRDS	R R	HMASMDSU HMASMSTA	R R	HMASMGTA HMASMSUB	R R	HMASMIO HMASMSUP	R
AR	HMASMTBL HMASMPRM	C	HMASMTCL	R	HMASMTPD	DRW	HMASMUPD	R		
SENDCC	HMASMSER HMASMSER HMASMMPE	DRW								
SNSCN2 SSD SSFSEQ	HMASMZAP HMASMRCD	D								
SMAX	HMASMIO HMASMSER	D								
C	HMASMAR1 HMASMIO	M	HMASMAR 2		HMASMAR3		HMASMAR4		HMASMDR1	DR
CCSID	HMASMAR1 HMASMTBL	DR	HMASMAR2		HMASMAR3	DR	HMASMAR4	DR		
CEPTED CK CPROC	HMASMARI HMASMDRV HMASMTM2	D	HMASMAR2 HMASMTM3							
CSAV CSREQS	HMASMDRV HMASMTCR	D M		.						
CWORK	HMASMSER HMASMDR1	DR	HMASMIO	DR						
DS_MODI	HMASMTRM									
DSDDCB DSDENT DSDRTN	HMASMIO HMASMIO	D D								
DSENT DSEOF	HMASMIO HMASMIO HMASMION	Ď	HMASMTPR	D WC						
DSFLGS DSGET	HMASMTPR HMASMTPR									
DSIDCB DSK	HMASMIO HMASMDRV	D								
DSODCB DSRC	HMASMIO HMASMTPR	DRWC								
DSREAD DSRTN	HMASMTPR HMASMIO	D								
DSSAV DSSY s DSVALD	HMASMDRV HMASMDRV HMASMTPR	DR								
NDSID PRTNCD	HMASMTBL HMASMTL2	DR								
RQ RQDDCB	HMASMDR1 HMASMIO	DR P	HMASMIO	DR						
RQDENT RQDR	HMASMIO HMASMIO	D								
RQDRTN RQENT	HMASMIO HMASMIO	D								
RQEOF RQIDCB RQK	HMASMION HMASMIO HMASMDRV	D			•					
RQODCB RQRTN	HMASMIO HMASMIO	Ď								
RQSAV SMETH	HMASMDRV HMASMIO	R								
TPTR	HMASMASM HMASMCPY	D	HMASMCPY	R	HMASMLKD	DR P				
TTYPE ACODEB AQODEB	HMASMAR1 HMASMIO HMASMIO	D C DR DR	HMASMAR2	DR C						
CDODCB	HMASMIO HMASMIO	DR DR								
CTLSCN D	HMASMDRV HMASMUC1	DR D WC	HMASMUC3							
DED DIFS	HMASMREC HMASMTPA	DR	HMASMTD1	D WC	HMASMTMD	D WC P				
DIPTEX	HMASMTPA HMASMTPA	DRW								
DIRDCB Dimod DMFLGS	HMASMIO HMASMTL1 HMASMTL1									
DMFND DMLMD&	HMASMTL1 HMASMTL1	DRWC DRW								
DMLMDX DMLMOD	HMASMTL1 HMASMTL1	DRW C P								
DMODEN DMRC	HMASMTL1 HMASMTL1 HMASMREC	DRWC	,							
DNFND DRC DRUXD	HMASMGTA HMASMUXC	DRWC	HMASMRDS	DRW	HMASMTP2	DRW	HMASMXRF	DRW		
DSMD DSTOP	HMASMUC3 HMASMGTA	D WC								
DSW Dx	HMASMTPD HMASMRDS	D WC DRW	HMASMXRF							
FLSHTB	HMASMUC1 HMASMSUP	DRW	HMASMUC3	DR	HMASMUC4	DR				
IOPRM IOSAVE JFCBPT	HMASMSCN HMASMIO HMASMIO	D W D R								
JFCB01 JFCB02	HMASMIO HMASMIO	DR DR								
PRMSCN	HMASMDSU HMASMIO	DR DR								
PTFND RMOD	HMASMIO HMASMCIL	DR DR P	•							
SAVPAG SCNTBL	HMASMGTA HMASMUC1 HMASMSCN	DR	HMASMUC3	DR	HMASMUC4	DR				
SCP SVPTF Synscn	HMASMIO HMASMORV	DR								
WTSAVE	HMASMIO	Ď.								

(ACRODR - ADWTSAVE

					\$	MBO	L USAGE					
SYMBOL	MODULE	ACCES	s	MODULE	ACCES	ss	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
	***************************************		_								***************************************	
AL	HMASMCIL											
ALBKEY Albipar	HMASMMPE HMASMMPE		M M									
ALBNMFND Albrpar	HMASMMPE HMASMMPE	D I	M									
ALBVAL	HMASMMPE HMASMMPE	D										
ALB2KEY ALB2LPAR	HMASMMPE	D										
ALB2RPAR Alb2VAL	HMASMMPE HMASMMPE	D	М									
ALCALC ALCDEL	HMASMALC HMASMALC	DR DR										
ALCDONE ALCRC	HMASMCIL HMASMALC	D WC		HMASMUPD	D MC							
ALCRINCD	HMASMALC	DRWC		UMAGNORT	D.B.		HMASMLKI	D.D.	HMASMTMW			
ALIAS ALIASCHN	HMASMCIL HMASMCIL	DR	P	HMASMCPI	UR		HUMSHEKI	UR	HUMSHILLIM	U		
ALIASPTR ALIASTYP	HMASMAAR HMASMD L E											
ALIASW ALIGN2	HMASMCIL HMASMLKI	D WC		HMASMIO	D							
ALL	HMASMCOM HMASMSEC	D C										
ALLOFF	HMASMREC	DR		HMASMTM1	D C		HMASMTM2	D	HMASMTM3	D		
ALLPROC ALPHA1	HMASMAR3 HMASMSCN	D W										
ALPHA2 Alpha3	HMASMSCN HMASMSCN	DW										
ALPHA4 Alpha5	HMASMSCN HMASMSCN	D W										
ALSADDR ALTADDR	HMASMCPI HMASMUPD	DR	P									
ALTASM	HMASMUPD	D !	M									
ALTCOPY ALTDD	HMASMUPD HMASMPCD	DR I	M M									
ALTLKD ALTNAMES	HMASMUPD HMASMPCD	D '	М									
ALTUPDTE AMBEND	HMASMUPD HMASMTPA		M									
AMBFLAGS AMBIGCK	HMASMTPA HMASMTPA	$D\;W$										
AMBNAME	HMASMTPA	D WC										
AMBPREV o Ambrc	HMASMTPA HMASMTPA	DRWC	P									
AMBSCL AMBSCL2	HMASMTPA HMASMTPA	D R	P									
AMODSCAN ANCHOR	HMASMMPE HMASMTID	DR DRWC	P									
ANOP ANSWRKC	HMASMUXP HMASMTMD	R	P									
ANYDDENT	HMASMIO	D	,									
ANYDDRTN ANYTWO	HMASMIO HMASMZAP	D WC										
ANYUT1 AOPTIONS	HMASMZAP HMASMASI	DW										
APACRC APAR	HMASMSEC HMASMAR1	DRWC DR		HMASMSUP HMASMAR4								
APARKEY APARSAV	HMASMMPD HMASMDRV	D 1	M M	HMASMMPH		M	HMASMREC	D				
APARSC APARSREG	HMASMDRV HMASMAR3	D 1	M									
APF	HMASMLKI	DR										
APFONLY APFPTR	HMASMAAR HMASMAAR	DRW		HMASMTL 2								
APP APPACC	HMASMAR1 HMASMTPD			HMASMAR2	DR		HMASMAR3		HMASMAR4		HMASMDR1	DR
APPC APPDSID	HMASMAR1 HMASMTBL			HMASMAR 2	DR		HMASMAR3	DR	HMASMAR4	DR		
APPK APPLIED	HMASMDRV HMASMAR1	D		HMASMAR2	n P							
APPLVER APPPTF	ATTMZAMH	DR	P	III IAGI IAKE	5 k							
APPRC	HMASMTMJ	DRWC	-									
APPRTNCD APPSAV	HMASMTL2 HMASMDRV	D 1	М									
APRRTNOD APTR	HMASMTL2 HMASMCPY	DRW DW										
APVRC APVSCL	HMASMTPA HMASMTPA	DRW DR	P									
ARAYINDX ARL	HMASMUC1 HMASMARL	DRWC	M	HMASMAR1		м	HMASMAR 2	м	HMASMAR3	м	HMASMAR4	м
	HMASMPRM HMASMAR1	e '	•	HMASMAR2	С	••	HMASMAR3	с	HMASMAR4			
AR L CHECK AR L PARM	HMASMARL		P	HMASMAR1	C	P	HMASMAR 2		P HMASMARS	, F	HMASMAR4	P
ARLRTNCD ARRYADDR	HMASMARL HMASMIO	$D\;W$										
ARICLEAN ARIHEAD	HMASMAR1 HMASMAR1											
ARIINIT ARIMPTF	HMASMAR1 HMASMAR1	DR										
ARIPREC ARIRELP	HMASMARI HMASMARI	DR										
ARIRPT	HMASMAR1	DR										
ARIRPTF ARIRTNOD	HMASMAR1 HMASMAR1	DRWC										
ARISWI ARITBLD	HMASMAR1 HMASMAR1	DR										
AR 2 B L M D AR 2 C L E A N	HMASMAR2 HMASMAR2	DR										
AR2HEAD AR2PREC	HMASMAR2 HMASMAR2	DR										
AR 2 R P T AR 2 R T N C D	HMASMAR2 HMASMAR2	DR										
AR2SW AR2TBLD	HMASMAR2 HMASMAR2	D										
AR3CHECK	HMASMAR3	DR										
AR3CLEAN	HMASMAR3											

D=DEFINITION, R=READ, W=WRITE, C=COMPARE, E=EQUATE OPERAND, M=MACRO, A=ABSOLUTE, P=PARAMETER

SYMBOL USAGE

					<u>\$</u>	YMBO	LUSAGE					
SYMBOL	MODULE	ACCE	SS	MODULE	ACCE	SS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
**************************************						•			•			
ARSHEAD	HMASMARS	DR										
AR3INIT AR3MODS	HMASMAR3 HMASMAR3	DR										
AR3PREC AR3PTFSC	HMASMAR3 HMASMAR3											
AR3RGAPR AR3RGRPT	HMASMAR3 HMASMAR3	DR										
ARBRTNCD	HMASMARE	DRWC										
AR4BITS AR4CLEAN	HMASMAR4	DR										
AR4HEAD AR4INIT	HMASMAR4	DR										
AR4PREC AR4REPRT	HMASMAR4	DR										
AR4RTNCD ASAVEPAG	HMASMAR4 HMASMAR3	DRWC										
ASAVEPOS	HMASMAR3	D										
ASAVEPTR ASAVERCD	HMASMAR3 HMASMAR3	D										
ASIRTNCD ASM	HMASMASI HMASMEIS	DRWC										
ASMCHAIN ASMDEL	HMASMTM4	DR	м									
ASMDFLT ASMDFLTP	HMASMDS1	. DR	••									
ASMENTRY	HMASMDS1 HMASMLID	DR		HMASMTMD	D C	P						
ASMFND ASMGTP	HMASMMPE HMASMTBL	DR										
ASMIDERR ASMINPUT	HMASMTMS HMASMTM4	DR										
ASMLIB ASMNDX	HMASMMPE HMASMBD L	D WC										
ASMOK ASMPGM	HMASMTM4	D WC										
ASMPGMFD	HMASMMPE	D	М									
ASMPGMLN ASMRBFSV	HMASMASM	DRW										
ASMPCDFT ASMREC	HMASMDS1 HMASMASM	I D										
ASMREQD ASMREQ1	HMASMTMS HMASMTMS											
ASMRTNCD ASMSCP	HMASMASM HMASMASM	1 DRWC										
ASMSK	HMASMUPD) D										
ASMSW ASMSYSIN	HMASMUPD HMASMTM4	DRWC										
ASM2KEY ASM2LPAR	HMASMMPE HMASMMPE	D										
ASM2RPAR ASM2VAL	HMASMMPE HMASMMPE	D	M									
ASM7KEY ASM7LPAR	HMASMMPE HMASMMPE	D	M									
ASM7RPAR ASM7VAL	HMASMMPE HMASMMPE	. D	M									
ASRECORD	HMASMTBL	DRW		UMAGMMBE	D 110		HMACMIICA					
ASSEM ASSEMBLY	HMASMAR 2 HMASML ID	DR		HMASMMPE	U WC		HMASMUC1	UW				
ASSEMC ASSEMCHK	HMASMDRV HMASMTMS	DR	M									
ASSEMFLG ASSEMK	HMASMTMS HMASMDRV											
ASSEMSAV ASSEMSEL	HMASMDRV	, D	M									
ASSEMSV ASSMÐ	HMASMDRV HMASMTM2	DR	M	HMASMTM3	nш		HMASMTM4	DRMC				
ASSMFND	HMASMMPE	D	M	MILESITING	.		mnasiiiii	DRMC				
ASSMKEY ASSMLPAR	HMASMMP E	D	М									
ASSMLST ASSMNM	HMASMTM2 HMASMTM2	DRW		EMTMZAMH EMTMZAMH	DR DRW		HMASMTM4 HMASMTM4	DR DR (P			
ASSMRPAR ASSMVAL	HMASMMPE HMASMMPE	D	M									
ASSNMFND ASTER	HMASMMPE HMASMLKI	D										
ASTERCK	HMASMASM	I D	M									
ASTFSW ASTSLASH	HMASMUPD	ID C										
ASYSLIN ASYSLMOD	HMASMLKI HMASMLKI	DW										
ASYSUT1 AT	HMASMLKI HMASMLKI											
AÚ B	HMASMAAR HMASMAR3	DRW		HMASMCIL	DRW		HMASMCMP	DR	HMASMGPF	R	HMASMLCO	DRW
BACKCHN	HMASMRCD HMASMAR4)	M	HMASMTPD	DRW							
BACKUP	HMASMOLE HMASMAAR	DR		HMASMCPI	DP		HMASMLKI	n P	HMASMSCN	I DP	HMASMUPI	n P
	HMASMZAP	DR			5 R		HILLOUILE K.T.	J.	ninariach		mmasmort	
BADDLIB BADEXIT	HMASMAR 2 HMASMIO	DR										
BADO BADRORT	HMASMUPD HMASMDRV	DR										
BAS Base_exp	HMASMZAP HMASMP05	RW		HMASMP14	DRW							
BASED	HMASMAAR HMASMAR4	R		HMASMALC HMASMASI	R		HMASMAR1 HMASMASM	R R	HMASMAR 2 HMASMBUE		HMASMAR3 HMASMBUR	
	HMASMCIL HMASMCPY	R		HMASMCMP HMASMCP2	Ř		HMASMCOM HMASMCRD	Ř R	HMASMCPI HMASMCRA	R	HMASMCPL HMASMDC2	R M
	HMASMDLE	R		HMASMORV	R		HMASMDR1	R	HMASMDR 2	R	HMASMDSU	R
	HMASMDS1 HMASMGTA	. R		HMASMEIS HMASMIDU	R	M	HMASMFPT HMASMIO	R	HMASMFVL	R	HMASMFXF HMASMLCD	R
	HMASML CP HMASMMPD	R		HMASMLC1 HMASMMPE	R		HMASMLID HMASMMPH	R R	HMASMLKD HMASMMPI	R	HMASMLKI HMASMMPV	R
	HMASMMSG HMASMRCF	R		HMASMPRM HMASMRCL	R R		HMASMP05 HMASMREC	R C	HMASMRCC HMASMREJ	R	HMASMRCD HMASMSCN	l R
	HMASMSEC HMASMTAI	R		HMASMSER HMASMTBL	R		HMASMSTA HMASMTBM	R R	HMASMSUF HMASMTCL	R	HMASMTAD	R
DEDERTMET			-WP7						MACRO, A=A			
DEGELINII	LUIT, RERE	W		, 2, C=COM				KARU PIEI	HACKU, AEA		FEFARANEI	

AR3HEAD - BASED

				SYMBO	DL USAGE					
SYMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODUL E	ACCESS
BASED	HMASMTDD HMASMTL 2 HMASMTM1 HMASMTPC HMASMTPS HMASMUC3	R R R	HMASMTD1 HMASMTL3 HMASMTP2 HMASMTPP2 HMASMUPD	R R R R	HMASMTEC HMASMTMD HMASMTM3 HMASMTPL HMASMTPI HMASMUPI	R R R R	HMASMTID HMASMTMJ HMASMTM4 HMASMTPO HMASMTR1 HMASMXRF	~ ~ ~ ~ ~ ~ ~ ~ ~ ~	HMASMTL1 HMASMTMS HMASMTPA HMASMTSB HMASMTSB	R R
BASEDSMD BASEFIX1 BASEFIX2 BASEFIX3	HMASMTPA HMASMMPE HMASMMPE HMASMMPE	D D	HMASMTPL	R						
BASEFIX4 BASEKEY1 BASEKEY2	HMASMMPE HMASMMPE HMASMMPE	D M								
BASEKEYA BASEKEYA BASELPRI BASELPR2	HMASMMPE HMASMMPE HMASMMPE HMASMMPE	D M								
BASELPR3 BASELPR4 BASERPR1 BASERPR2	HMASMMPE HMASMMPE HMASMMPE HMASMMPE	D D								
BASERPR3 BASERPR4 BASEUPD1	HMASMMPE HMASMMPE HMASMMPE	D D M								
BASEUPD3 BASEUPD4 BASEUPD4 BCDCOL	HMASMMPE HMASMMPE HMASMMPE HMASMMPD	D M	HMASMMPE	DR	HMASMMPH	DR	HMASMMPI	DP	HMASMMPV	DR
BCDNO	HMASMUPI HMASMMPD HMASMUPI	DR DR DR	HMASMMPE	_	HMASMMPH		HMASMMPI		HMASMMPV	-
BDAYSAV BDDSNRTN BDLRTNCD BEGDAY	HMASMDRV HMASMSUB HMASMBDL HMASMDRV	DR DRW D M								
BEGIN BEGMON BEGYEAR BFFRCNT	HMASMTBM HMASMDRV HMASMDRV HMASMCPY	D M								
BINDAY BINMONTH BINYEAR	HMASMLOG HMASMLOG HMASMLOG	DRWC DR DR C								
BITFLG1 BITFLG2 BITFLG3 BITFLG4	HMASMMPE HMASMMPE HMASMMPE HMASMMPE	D D								
BKUPICTE BKUPRC BLANK	HMASMDLE HMASMBUE HMASMAAR HMASMASM	DR I DRWC D	HMASMDLE HMASMALC HMASMCIL	DRWC F	HMASMAR1 HMASMCOM	R C	HMASMAR3 HMASMCPI		HMASMASI HMASMCPL	DR C
	HMASMCPY HMASMFVL HMASMLCP	DR M R R C	HMASMCRD HMASMFXF HMASMLID	R C	HMASMDRV HMASMIO HMASMLKD	P C DP C P C	HMASMDS1 HMASMION HMASMLKI	R C DR DR C	HMASME CD HMASML CD HMASML OG	R C R C
BLANKDDN	HMASMTID HMASMTID HMASMUPD HMASMDLE	DR C	HMASMTMD	R C DR C DR C	HMASMRCD HMASMTMW HMASMVLU	R C R	HMASMSCN HMASMTM4 HMASMZAP	DR C	HMASMSUB HMASMUC1	
BLANKS BLANK2	HMASMAR4 HMASMTEC HMASMTPC HMASMUC1	DR C	HMASMCPI HMASMTM1 HMASMTRM	DR C	HMASMCRW HMASMTM2 HMASMUC2	DR C	HMASMMPE HMASMTM3 HMASMVLU	DR C	HMASMTAD HMASMTM4	
BLANK4 BLANK7 BLANK8	HMASMUCI HMASMBUE HMASMDLE HMASMTDD	DR C DR DR	HMASMLCD HMASMLCD HMASMTL1	D C	HMASMSUP HMASMLCP HMASMTL2	D C	HMASMUC1 HMASMLKD HMASMUC1	D C	HMASMUC3 HMASMTBL HMASMUC3	D
BLDACDSM BLDADD	HMASMUC4 HMASMTM1 HMASMTMD	DR DWC DW (HMASMUXC HMASMTM2	DR C	HMASMTM3		111111111111111111111111111111111111111	5x 5	1111211003	5 **
BLDADUMM BLDAENT BLDAIOP BLDAIOPT	HMASMTRM HMASMTRM HMASMTRM HMASMTRM	DR I								
BLDAMID BLDARC BLDAX1 BLDCNTLF	HMASMTRM HMASMTRM HMASMTRM HMASMTPL	DRWC DRW								
BLDCPY BLDDSIDS BLDDSID1	HMASMCPI HMASMTPL HMASMTPL	DR DRWC DRWC								
BLDDSID2 BLDELSTO BLDENT BLDENTO	HMASMTPL HMASMTPL HMASMMCD HMASMTD1	D N D RWC 1	HMASMTMD	DRW F	HMASMTM4	DRWC P	HMASMTRM	DRW I	,	
BLDENTRY BLDESMD BLDESUBE	HMASMTMD HMASMTMD HMASMTMD HMASMTRM	DR DR	HMASMTRM HMASMTRM HMASMTRM	DR	•					
BLDEXEC BLDFLAGS BLDFLSHC BLDICTM	HMASMTPL HMASMTPL HMASMTMD HMASMTMD	D WC	,							
BLDICTP BLDICTRC BLDINM	HMASMTD1 HMASMTMD HMASMTD1	DR DRWC I								
BLDIRC BLDL BLDLALIS BLDLELMT	HMASMEDL HMASMEDL HMASMEDL HMASMEDL	D W	HMASMIO HMASMCOM	DR DR						
BLDLEV BLDLFLGS BLDLINIT BLDLLIST	HMASMTMD HMASMTPL HMASMTPL HMASMBDL	D DR	HMASMIO	DR M						
BLDLNAME BLDLPOS BLDLPSTN BLDLREC	HMASMCOM HMASMCOM HMASMCOM HMASMCOM	D C	HMASMIO	Б"₩ ''						
BLDLTTR	HMASMIO	DR					14000 4-4			

BASED - BLDLTTR

					\$1	MBO	LUSAGE						
SYMBOL	MODULE	ACCESS	_	MODULE	ACCES	:s	MODULE	ACCES	:\$	MODULE	ACCESS	MODULE	ACCESS
BLDLTTRC	HMASMIO	D W											
BLDLUSER	HMASMIO HMASMIO	DR C											
BLDL1 BLDL2	HMASMTPL HMASMTPL	D WC											
BLDL3 BLDL4	HMASMTPL HMASMTPL	D WC											
BLDLS	HMASMTPL	D WC											
BLDMASS BLDMASSL	HMASMTPL HMASMTPL	DR											
BLDMCAND	HMASMTPL HMASMTM4	DR	_										
BLDMD2PC BLDMD2RC	HMASMTMD HMASMTMD	DRWC	P										
BLDMD3PC BLDMFSMD	HMASMTMD HMASMTMD	DR	P										
BLDMODPC BLDMODRC	HMASMTMD HMASMTMD		P										
BLDMODS Bldmodsf	HMASMTMD HMASMTMD	DR DR											
BLDMODS2 BLDMODS3	HMASMTMD HMASMTMD	DR DR											
BLDM2SMD BLDM2WRK	HMASMTMD	DR	P										
BLDM3SMD BLDOPTS			P										
BLDPTF BLDPTR	HMASMTPC	Ď	P										
BLDRLFD\$	HMASMRJD												
BLDSEOF	HMASMTPL	D WC											
BLDSLST&	HMASMTPL HMASMTPC	DR											
BLDSMDRC BLDSMTYP		D	P										
BLDSYSMD BLDVAR	HMASMTMD HMASMPMG	R	P										
BLDVINDX BLD1ENT	HMASMTD1 HMASMTPL	DR	P										
BLD1FLGS BLD1FND	HMASMTPL HMASMTPL	D WC											
BLD1IOP BLD1RC	HMASMTPL HMASMTPL	DR	P										
BLD1REDO BLD1SLCT	HMASMTPL HMASMTPL	D W	P										
BLKALLOC BLKIOP	HMASMRDS HMASMEIS	DRW											
BLKPTR BLKUSED	HMASMEIS HMASMRDS	DR											
BLKWRITE BLKWRRC	HMASMEIS HMASMEIS	DR											
BLMCAND	HMASMTPL	D W	P										
BLMDRC BLMENT1	HMASMAR2 HMASMTPL	D WC											
BLMENT2 BLMFLAGS	HMASMTPL HMASMTPL	D W											
BLMGET RC	HMASMTPL HMASMTPL	DRW											
BLMGET1 BLMGET2	HMASMTPL HMASMTPL	D WC	_										
BLMIOP	HMASMTPL HMASMTPL	DRWC	P										
BLMREDO BLMSMD1	HMASMTPL HMASMTPL	D P W C	P										
BLMSMD2 Blm1eof	HMASMTPL HMASMTPL	D MC											
BLM110P8 BLM1SMD	HMASMTPL HMASMTPL	D WC	P										
BLM2EOF BLM2IOP&	HMASMTPL HMASMTPL		P										
BLM2SMD BLNKFMID	HMASMTPL HMASMTPL	D WC											
BL1CAND BL1EIOP	HMASMTPL HMASMTPL	D C	P										
BLIFLAGS BLIFMIDD	HMASMTPL HMASMTPL	DW											
BLIMODE BLINDXI	HMASMTPL HMASMTPL	D C	P										
BLIRC BLIREDO	HMASMTPL HMASMTPL	PRUC											
BLISKIP	HMASMTPL HMASMTPL	D WC	-										
BLIVER# BMONSAV BNPEMAX	HMASMDRV HMASMUC1	D											
BPAM	HMASMIO	R											
BPAMERR BRSW	HMASMZAP	DR WC											
BSAM BSAMERR	HMASMIO HMASMIO	DR M		HMASMBUE		_	HMASMCPY			HMASMDLE	м	HMASMLKD	. м
BUE	HMASMASM HMASMPRM HMASMBUE	DR C		HMASHBUE		M	HMASMUPD		M	ATTACHE LE	FI	maricke	. 11
BUEBKUP	HMASMBUE	DR											
BUEGMIOP	HMASMBUE	DR DR											
BUERTNOD	HMASMBUE HMASMBUE	DR											
BUESW	HMASMBUE HMASMBUE	DR											
BUFBASE	HMASMCPY HMASMASM	DRWC	_	um s chr = :			UM / 2002			UMA AVARA		UM L AMAT	
BUFFER	HMASMASM HMASMCRD	DR	P	HMASMCIL HMASMGPF	R.	_	HMASMCOM HMASML KD	DRW		HMASMCPI HMASMLKI	RWC	HMASMCPY HMASMRCD	
BUFFRIOP	HMASMRIO HMASMDRV	R DR		HMASMUPD	RWC	P	HMASMZAP	R					
BUFFSAVE BUFFSV	HMASMUPI HMASMIO	DRW											
D=DEFINIT	ION, R=RE	AD, WEWR	71	E, C=COMP	ARE,	E=E	QUATE OPE	RAND,	M=M	ACRO, A=A	SOLUTE,	PEPARAMET	ER

242 OS/VS System Modification Program (SMP) Logic

BLDLTTRC - BUFFSV

YMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCES
UFINDX UFIOP2	HMASMDLE HMASMTBL	ĎR	P							
UFIOP3 UFLMM UFRPTR	HMASMTBL HMASMUPD	DRW								
JESAVE JILD	HMASMZAP HMASMTMD	D MC								
JILDGTA JMP010 JMP1	HMASMTCR HMASMASM HMASMASM	DR	HMASMTD1	. UR						
IMP2 IMP3	HMASMASM	D M								
JNT JPABKUP	HMASMLCD HMASMASM	D I	P HMASMBUE		HMASMCPY	R	HMASMLKD	R	HMASMUPD	R
PADD PCDSDL	HMASMASM HMASMBUR	С	HMASMBUE	. R	HMASMCPY	R C	HMASMLKD	R		
IPDE L IPEBKUP IPFUNCT	HMASMBUE HMASMBUE HMASMASM	С	HMASMDLE HMASMDLE HMASMBUE	. R	HMASMBUR	С	HMASMCPL	W	HMASMCPY	ы
PGTPAD	HMASMDLE HMASMBUR	W	HMASML KE HMASMD LE) W	HMASMTMJ HMASMTMJ	พั	HMASMUPD HMASMUPD	ũ		-
PIOPAD	HMASMASM HMASMUPD	W	HMASMBUE	R	HMASMCPY	W	HMASMDLE	W	HMASMLKD	W
PPARM	HMASMASM HMASMD L E	W	P HMASMBUE P HMASMLKO) F	HMASMBUR HMASMTMJ	М	P HMASMCPL P HMASMUPD		P HMASMCPY P	
PREST PSTOW PSTOWD	HMASMBUR HMASMBUE HMASMBUR	С	HMASMTM J HMASMD LE HMASMCP L	R	HMASMUPD HMASMTMJ	R R				
PSTYPE	HMASMBUE	R	HMASMCP L HMASMBUR	. W	HMASMDLE	~W	HMASMTMJ HMASMDLE	W	HMASMUPD HMASMTMJ	W
PT	HMASMUPD	RW						~		
PTYPE Pupd	HMASMASM HMASMASM	i	HMASMBUE HMASMBUE	: C	HMASMCPY HMASMCPY	R _	HMASMD L E HMASM L KD	R R	HMASMLKD	W
R RCDSL	HMASMBUR HMASMBUR HMASMBUR	DR	HMASMCPL	. м	HMASMPRM	С				
RCOPY RREST RRTNCD	HMASMBUR HMASMBUR	DR								
RSCDNG RSCDOK	HMASMBUR HMASMBUR	DR								
RSCDSL RSETUP	HMASMBUR HMASMBUR	DR DR								
RSTOWD RSW	HMASMBUR HMASMBUR	D								
RTERM TP	HMASMBUR HMASMLCD	DC								
EARSAV Passd Passed	HMASMDRV HMASMTMS HMASMTCR	D	HMASMTRI	DP C						
PASSK PASS10	HMASMDRV HMASMCPY	D								
PEND PFMID	HMASMDRV HMASMDRV	D M								
PID Pirq	HMASMDRV HMASMDRV	' D								
PLP PPRE PREQ	HMASMDRV HMASMDRV HMASMDRV	Ď								
PREGS	HMASMTCL HMASMDRV	DR								
PRP PRTN	HMASMDRV HMASMTCL	D DRW								
TE	HMASMASM HMASMICT	. D	HMASMBDL HMASMIO	D	HMASMCCA HMASMIOP	D		D	HMASMEIS HMASMLKD	D
	HMASMMSG HMASMTCR HMASMIO		HMASMER		HMASMRE J HMASMSUP		HMASMR JD HMASMTPD	D	HMASMSPL	D
LLCOPY	HMASMCOM HMASMCPI	D	HMASMCPI HMASMLKI	DWC	HMASMZAP		MINGHIFE	J		
LLEXIT	HMASMCRD HMASMUXC	DR				-				
NDIDTE NUL	HMASMTPL HMASMUC2	DR C	P HMASMTSE	DCF	,					
OP RDCLOS RDCOL	HMASMUC2 HMASMRCD HMASMRCD	RW								
RDDATA RDREP	HMASMTMW HMASMRCD	С								
RRAY TXT	HMASMFVL HMASMUC2	D , M	P							
USER USER1	HMASMAR4 HMASMLCC	DW	HMASMCRU	I DR C	,					
CP NUL OP	HMASMUC2 HMASMUC2 HMASMUC2	D								
VAL AABFMX	HMASMUC2 HMASMCCA	D M	HMASMDSU	J RW	HMASMIO	R				
AACCPT	HMASMAAR HMASMCPL	ç	HMASMAR1 HMASMCRU	i č	HMASMAR2 HMASMDLE	C	HMASMCCA HMASMDRV	D WC	HMASMCOM HMASMDR1	000
	HMASMIDU HMASMTBL HMASMTMJ	С	HMASMLKI HMASMTCL HMASMTM1	. с	HMASMPGC HMASMTL1 HMASMTM2	CCC	HMASMSEC HMASMTL2 HMASMTM3	COC	HMASMSUP HMASMTMD HMASMTM4	OOO
AACDID	HMASMTPD HMASMCCA	С	HMASMTPL	. с	HMASMZAP HMASMDS1	۵ ن	nnasiiii3	C	nriasiri 174	C
AACDIS	HMASMCCA HMASMCCA	D D	HMASMDR1 HMASMDR1	. с	HMASMIO HMASMDR2	MC C	HMASMEIS	С	HMASMIO	С
AACDSC	HMASMRDS HMASMCCA	В	HMASMDRV	, с	HMASMDS1	W				
AACDSP AACDUP AACRIS	HMASMCCA HMASMCCA HMASMCCA	. D	HMASMDR1 HMASMDR2 HMASMDR1	: C	HMASMDSU HMASMIO	WC C				
AACROS	HMASMCCA HMASMRDS	D c	HMASMDR1	. W	HMASMDR2	C	HMASMEIS	С	HMASMIO	С
AACRUP AACRUP	HMASMCCA HMASMCCA	D D	HMASMDR1 HMASMDR2	e c	HMASMDSU		UM 4 544 - 5 :	_		
AAPPLY	HMASMAR1	<u> </u>	HMASMAR	C .	HMASMAR3	Ç	HMASMAR4	сс	HMASMCCA	

BUFINDX - CCAAPPLY

SYMBOL USAGE ACCESS MODULE ACCESS MODULE ACCESS SYMBOL MODULE ACCESS MODULE MODULE HMASMDRV HMASMTBL HMASMTM1 HMASMTPL 9000 HMASMDR1 HMASMTCL HMASMTM2 HMASMCOM HMASMIDU HMASMTL2 HMASMTM3 HMASMCPL HMASMSEC HMASMTMJ HMASMTM4 HMASMDLE HMASMSUP HMASMTMS HMASMTPD CCAAPPLY HMASMTM3
HMASMCCA D
HMASMCCA D
HMASMASI I
HMASMASI I
HMASMASI I
HMASMASI D
HMASMASI D
HMASMASI D HMASMCCA D HMASMBDL HMASMCCA D HMASMDS1 WC WC HMASMCCA D HMASMDR1 HMASMDR1 HMASMDS1 HMASMDS1 HMASMDR2 320 HMASMTBL HMASMDSU R C HMASMCCA D
HMASMCCA D
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HMASMCCA D RW HMASMCCA D HMASMDSU HMASMIO HMASMIO HMASMDSU HMASMDSI HMASMDSI RU M **HMASMIO** HMASMDRV HMASMDSU HMASMDRV HMASMDRV HMASMDRV HMASMDRI HMASMDRI C R C HMASMIO MC CC HMASMDR2 HMASMEIS C **HMASMIO** C CCACDSP CCACDSUP CCACHECK CCACHET CCACMPRS CCACOMDX CCACOMDM HMASMDR1 HMASMDR2 HMASMCCA D HMASMDRV F HMASMCCA D HMASMDRV CC HMASMDSU WC HMASMXRF HMASMDRV WC HMASMEIS c C HMASMDR1 THE TABLE TO THE T RWC M HMASMDRV HMASMIO HMASMREJ WC C HMASMCCA D HMASMCOM HMASMCOM HMASMCOM HMASMCOM HMASMDS1 WC CCACOMNM CCACOMPM CCACOMRS CCACOMSP CCACONTY CCACOPYP CCACOPYN CCACOPYN CCACOPYN CCACOPYN WC. R HMASMDS1 C R HMASMDS1 MC HMASMCIL HMASMCPI HMASMRCD HMASMCCA D HMASMCIL R HMASMCPI HMASMDS1 WC CCACPYPM CCACPYRC CCACPYSP CCACRQIS CCACRQOS HMASMCIL HMASMRCD HMASMCIL HMASMDR1 R R HMASMCPI HMASMD\$1 WC C R M_C HMASMCPI R HMASMDS1 WC c HMASMDR 2 HMASMEIS c HMASMTO C HMASMDR1 HMASMCCA D HMASMCCA D HMASMCCA D HMASMCCA D HMASMCCA D HMASMCCA D CCACRQP CCACRQUP CCACSREL CCACSYSF HMASMDSU c HMASMTBL HMASMDS1 HMASMIO RC HMASMDR1 HMASMDR2 HMASMDS1 HMASMDSU C Ċ C `w PΨ HMASMDSU HMASMUCI WC CCADBLDL CCADELP CCADISRQ CCADSAD HMASMTEC HMASMDC2 HMASMDC2 HMASMCRD HMASMMPI HMASMTSB HMASMBUR HMASMTMJ HMASMDC2 HMASMMPV HMASMUXC HMASMCMP HMASMTPA HMASMDRV HMASMMSG HMASMVLU HMASMEIS HMASMTPL C 2222 HMASMEIS HMASMRDS HMASMIO HMASMTPR CCADSIDA м HMASMUC1 COCCAFLAGGS
COCCAFLAGGS
COCCAFLAGGS
COCCAFLAGGS
COCCAFLAGGS
COCCAFLAGGS
COCCAFLAGGS
COCCAFLAGGS
COCCAFLAGGS
COCCAFLAGGS
COCCAFLAGGS
COCCAFLAGGS
COCCAFLAGGS
COCCAFLAGGS
COCCAFLAGGS
COCCAFLAGGS
COCCAFLAGGS
COCCAFLAGGS HMASMDRV HMASMDRV HMASMUXC HMASMDR1 W c **HMASMUXC** C WC HMASMDRV HMASMDRV HMASMEIS HMASMDR2 HMASMDR2 HMASMEIS RW HMASMREC R C HMASMTEC R C CCAFMID HMASMDRV HMASMUC1 HMASMDSU RC CCAFPGM CCAFPROC CCAFSTA CCAFSYS CCAFUNCT HMASMDRV HMASMUXC HMASMFXF HMASMCPL HMASMTMJ HMASMDC2 HMASMTM3 HMASMTBL HMASMREJ CCAGTP1 `W HMASMLCC **HMASMLID**

CCAAPPLY - CCAGTP3

DEDEFINITION, REREAD, WEWRITE, CECOMPARE, EEEQUATE OPERAND, MEMACRO, ASABSOLUTE, PEPARAMETER

				SYMB	DL USAGE					
SYMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
CCAICLMD	HMASMAAR HMASMCPL HMASMTBL	R	HMASMCCA HMASMDLE HMASMTBM	R RW	HMASMCIL HMASMDRV HMASMTCL	R R R R	HMASMCOM HMASMLKI HMASMTDD	R R R	HMASMCPI HMASMTAD HMASMTL1	R R
CCAICMOD	HMASMTL 2 HMASMAAR HMASMCOM HMASMIDU HMASMTCL HMASMTMS	R R R R W C	HMASMTL3 HMASMAR2 HMASMCPI HMASMSEC HMASMTL1 HMASMTM1	R R R R R R	HMASMTSB HMASMAR3 HMASMCPL HMASMTAD HMASMTL2 HMASMTM2	R R W R R	HMASMCCA HMASMDLE HMASMTBL HMASMTL3 HMASMTM3	D R R R R	HMASMCIL HMASMDRV HMASMTBM HMASMTMD HMASMTM4	23 23 24 24
CCAICPTF	HMASMTRM HMASMAAR HMASMCMP HMASMTDU HMASMTMS HMASMTPS	R R R R R	HMASMTSB HMASMAR1 HMASMTBL HMASMTD1 HMASMTPA HMASMTRM	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	HMASMUPI HMASMAR3 HMASMCP2 HMASMTBM HMASMTPD HMASMTP1	R R W R R R	HMASMAR4 HMASMTCL HMASMTMD HMASMTMD HMASMTPO HMASMTSB	C	HMASMCCA HMASMDRV HMASMTCR HMASMTMJ HMASMTPR HMASMUPI	D W R R R R
CCAICT	HMASMZAP HMASMCCA	P	HMASMDC2		HMASMDRV	RWC	HMASMTBL	RW	HMASMTBM	RW
CCAICTOK	HMASMTCL HMASMARL	C	HMASMTL1 HMASMCCA	DR	HMASMDRV	С	HMASMSEC	С	HMASMSER	С
CCAID	HMASMTBL HMASMCCA	\ D	HMASMDSU	W				_		
CCAIFGTP CCAIOPAS	HMASMCCA HMASMCCA HMASMDS1	. D_	HMASMCRW HMASMDRV	R RW	HMASMDC2 HMASMDR1	RW R	HMASMTBL HMASMDR2	R	HMASMDSU	R
CCAIOPCS	HMASMCCA HMASMDS1	D	HMASMDRV HMASMUC1	RW	HMASMDR1 HMASMUC2	R R	HMASMDR2	R	HMASMDSU	R
CCAIOPTR	HMASMAAR HMASMCCA HMASMCPL HMASMIDU HMASMIDU HMASMITL HMASMTL HMASMTPO HMASMTPO HMASMUC3	R R R R R R R R R R R	HMASMAR3 HMASMCPU HMASMDR2 HMASMLID HMASMTED HMASMTM3 HMASMTPR HMASMUCA	***************************************	HMASMASH HMASMCRU HMASMLKD HMASMLKD HMASMTMJ HMASMTM4 HMASMTPM HMASMTPM HMASMUPM		HMASMTPA P HMASMUC1 HMASMUPI	C 3	HMASMBUR HMASMCPI HMASMFVL HMASMFVG HMASMTBL HMASMTPL HMASMTPL HMASMUC2 HMASMUC4	
CCAIOSUP	HMASMAAR HMASMCCA	D	HMASMBDL HMASMDR1	W	HMASMCCA	D	HMASMCOM	С	HMASMTL 2	С
CCALINKP	HMASMCCA HMASMCCA	D	HMASMDRV		HMASMDR1	Ç	HMASMIO	С		
CCALISTP	HMASMCCA HMASMCCA	D	HMASMDSU		HMASMMSG	C		_		
CCAL KDNM CCAL KDPM	HMASMBD L HMASMCCA	D	HMASMCCA HMASMDS1	wc	HMASMDS1 HMASMLKI	R	HMASMLKI	R		
CCALKDRC	HMASMCCA	D	HMASMDS1 HMASMLKI	_B wc	HMASMLKI	R				
CCALKED CCALOG CCALSTOS	HMASMCCA HMASMCCA HMASMFXF	D R	HMASMDRV HMASMDRV HMASMLCC	ÛMC C	HMASMDSU HMASMLCD	R R	HMASMFPT HMASMLCP	R R	HMASMFVL HMASMLID	R R
CCAMBFMX CCAMTSNP	HMASMLOG HMASMCCA HMASMAAR	\ D	HMASMDSU HMASMCCA	RW	HMASMIO HMASMDR1	₽ C	HMASMDS1	W		
CCAMTSP	HMASMCCA HMASMAAR	N D	HMASMDR1 HMASMCCA	С	HMASMDSU	МÇ	HMASMTDD	W	HMASMTL2	WC
CCANODST CCANUCID CCAPBFIA	HMASMCCA HMASMAAR HMASMCCA	P C	HMASMCCA HMASMDRV	D R C M	HMASMDRV HMASMDSU	RW R	HMASMDS1 HMASMIO	WC R		
CCAPBFMX CCAPBFOA CCAPBFSZ CCAPEMAX	HMASMCCA HMASMCCA HMASMCCA HMASMBUE HMASMREC	B c	HMASMDSU HMASMDSU HMASMDPV HMASMCCA HMASMSUB	R D	HMASMIO HMASMIO HMASMDSU HMASMCPY HMASMTM1	E W C C	HMASMDS1 HMASMUC1	RWC R C	HMASMMPE HMASMVLU	R C
CCAPESIZ CCAPGLEN	HMASMCCA HMASMCCA	D	HMASMIO HMASMDS1	RWC	HMASMSUB HMASMIO	RW R	HMASMUC1	R		
CCAPGMPM CCAPSYSF	HMASMCCA HMASMCCA HMASMCCA	\ D	HMASMDR1 HMASMDR1	С М	HMASMDSU	С	HMASMDS1	W		
CCAPTEP CCAPTE	HMASMICCA HMASMAAR HMASMIDU HMASMITA HMASMIT L HMASMUCI	2 D 1 D 2 D 2 D	HMASMARI HMASMCKI HMASMLKI HMASMSUB HMASMTMD HMASMUC4	D W R	HMASMASI HMASMCP2 HMASMMPD HMASMTBL HMASMTMS HMASMUPD	R R D R	HMASMBDL HMASMDRV HMASMMSG HMASMTCR HMASMTR1 HMASMUPI	D R R	HMASMCMP HMASMGTA HMASMSER HMASMTID HMASMTSB HMASMUXC	DW
CCAPTSNJ CCAPTSP CCAPTSP CCAQBFIA CCAQBFOX CCAQBFSX CCAQBFSX CCARASM	HMASMZAP HMASMCCA HMASMCCA HMASMCCA HMASMCCA HMASMCCA HMASMCCA HMASMCCA	000000000000000000000000000000000000000	HMASMCPL HMASMCPL HMASMDR1 HMASMDRV HMASMDSU HMASMDRV HMASMDRV HMASMCCA	2 23 E 0000	HMASMDS1 HMASMDSU HMASMDSU HMASMIO HMASMIO HMASMIO HMASMIOSU HMASMDSU	333 C R R 33	HMASMIO	R		
CCARCOMP	HMASMCCA	D	HMASMDS1 HMASMCIL HMASMDRV	W C	HMASMCPI HMASMDRI	c	HMASMDS1 HMASMSER	w _C	HMASMTCL	С
CCAREC CCAREJ CCARES	HMASMCCA HMASMCCA HMASMARL	\ D	HMASMDRV HMASMDRV HMASMAR1		HMASMORI HMASMORI HMASMAR2	GC C	HMASMCCA		HMASMCOM	
COMRES	HMASMCPL HMASMTBL	RC	HMASMDLE HMASMTCL	č	HMASMDRV HMASMTEC	мĞ	HMASMDR1 HMASMTL2	Š	HMASMIDU HMASMTMJ	000
CCARESET	HMASMTM1 HMASMCCA	. c	HMASMTM2 HMASMDRV	C	HMASMTM3	č	HMASMTM4		HMASMTPD	č
CCARGNP CCARLINK	HMASMARL HMASMCCA		HMASMCCA HMASMDS1	DW	HMASMLKI	С				_
CCARPTDS	HMASMAR1 HMASMDRV	, P	HMASMAR 2 HMASMDSU	RW	HMASMAR3 HMASMRCL	R	HMASMAR4	R	HMASMCCA	D
CCARPTP	HMASMCCA HMASMCCA	D	HMASMDSU HMASMDS1	W	HMASMMSG	C				
CCARUPDT CCARVAD	HMASMCCA HMASMAAR	R	HMASMDS1 HMASMASI		HMASMUPI HMASMCCA		HMASMCIL	Ŗ	HMASMCOM	R
	HMASMCPI HMASMUPI	. R	HMASMLKI HMASMZAP	R	HMASMRCD	R	HMASMREC	R	HMASMSTA	RWC
CCARVCAN CCARVEST CCARZAP CCASBFMX	HMASMCCA HMASMCCA HMASMCCA HMASMCCA	D	HMASMDRV HMASMDRV HMASMDS1 HMASMDSU	W	HMASMSTA HMASMSTA HMASMZAP HMASMIO	C C C				
D=DEFINIT	ION, RERE	AD, W=WR	ITE, C=COM	PARE, E=	EQUATE OPE	RAND, M=1	MACRO, A=A	BSOLUTE,	P=PARAMET	ER

	Manin P		MODILLE		USAGE	400200		MODILII E	400500	MODULE	400555
SYMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS		MODULE	ACCESS	MODULE	ACCESS
CCASCDSP	HMASMCCA	n	HMASMDR1	С	HMASMDSU	WC					
CCASEGTP	HMASMCCA HMASMCCA	D	HMASMDC2 HMASMDRV	, Wັ ₽	HMASMLID HMASMLID		P	HMASMREJ HMASMREC	R R	HMASMTBL	R
CCASLBP CCASPDCB	HMASMCCA HMASMAAR	D	HMASMDR1 HMASMBDL	"MC	HMASMCCA			HMASMDRV	r C		
CCASPZAP CCASREL	HMASMCCA HMASMCCA	D	HMASMZAP HMASMTL 2	R		•					
CCASTSNP	HMASMAAR HMASMCCA	RC	HMASMCCA HMASMDR1		HMASMDR1 HMASMDSU	MC C		HMASMDS1	W		
CCASTSP	HMASMCCA	D	HMASMBDL	R C	HMASMCCA			HMASMDS1	WC		
CCASUPPM	HMASMAAR HMASMCCA	D	HMASMDS1	"MC	HILSTICCA	•		nnashb31			
CCASUPRO	HMASMCCA	D	HMASMDS1 HMASMCCA	D MC	HMASMCOM	ш		HMASMDRV	W	HMASMTL 2	W
CCASVCLB	HMASMAAR HMASMCCA	D	HMASMDRV	RCM	HMASMIO	RW		HIMSHURV	_	MASHILE	-
CCATBENX	HMASMCCA	D	HMASMIO HMASMDRV	WC R	HMASMIO	RMC		HMACMTDII	R	HMASMSER	R
CCATBLPA CCATERM	HMASMCCA HMASMCCA	D	HMASMCPL HMASMDRV	R c	HMASMDRV HMASMMSG	W W		HMASMIDU			
CCATIME	HMASMCCA HMASMSEC	R	HMASMCRD HMASMUC1	W R	HMASMDSU	W		HMASMIO	R	HMASMRCC	R
CCATLBP CCATPAD	HMASMCCA HMASMCCA	D	HMASMDR1 HMASMDC2	W	HMASMRCD	С			_		_
CCATYPEA	HMASMBUE HMASMIO	R	HMASMBUR HMASMMPE	R R	HMASMCRW HMASMMPI	R R		HMASMEIS HMASMMPV	R R	HMASMIDU HMASMREJ	R R
	HMASMSEC HMASMTRM	R M	HMASMSUP HMASMUC1	R R	HMASMTMJ HMASMUC2	R R		HMASMTPL HMASMUC3	R M	HMASMTPR HMASMUC4	R M
CCAUPDDX CCAUPDJ	HMASMCCA HMASMCCA	D	HMASMDRV	WC	HMASMDR1	С		HMASMDR2	WC	HMASMIO	С
CCAUPDNM	HMASMBDL HMASMCCA	R	HMASMCCA		HMASMDS1	WČ		HMASMUPI	R		
CCAUPDPM	HMASMCCA HMASMCCA	D	HMASMD\$1	MC	HMASMUPI	RC					
CCAUPDSP	HMASMCCA HMASMCCA	D	HMASMDS1 HMASMUPI	WC R	HMASMUPI	R					
CCAUPDU	HMASMCCA	D	HMASMDRV		HMASMDRI	С		HMASMDS1	C		
CCAUT1P CCAUT2P	HMASMCCA HMASMCCA	D	HMASMDR1 HMASMDR1	W W							
CCAUT3P CCAVBFIA	HMASMCCA HMASMCCA	D	HMASMDR1 HMASMDRV	R C M	HMASMDSU	R		HMASMIO	R		
CCAVBFMX CCAVBFOA	HMASMCCA HMASMCCA	D	HMASMDSU HMASMDSU	W	HMASMIO HMASMIO	R R					
CCAVBFSZ CCAWBFIA	HMASMCCA HMASMCCA	D	HMASMDRV HMASMDRV	R C M	HMASMDSU HMASMDSU	R		HMASMIO	R		
CCAWBFOA CCAWBFSZ	HMASMCCA HMASMCCA	. D	HMASMDSU HMASMDRV	R	HMASMIO HMASMDSU	RW					
CCAWK1P CCAWK2P	HMASMCCA HMASMCCA	. D	HMASMDR1 HMASMDR1	CCC	HMASMDSU HMASMDSU	MC					
CCAWK3P CCAWK4P	HMASMCCA HMASMCCA	D	HMASMDR1 HMASMDR1	C	HMASMDSU HMASMDSU	MC MC					
CCAWK5P CCAXBFMX	HMASMCCA HMASMCCA	D	HMASMDR1 HMASMDSU	С	HMASMDSU HMASMIO	R					
CCAZAPDX	HMASMCCA HMASMBDL	D	HMASMCCA		HMASMDS1	WC		HMASMZAP	R		
CCAZAPP	HMASMAAR HMASMCCA	W	HMASMCCA HMASMDS1		HMASMZAP	R					
CCAZAPRO	HMASMCCA HMASMCCA	D	HMASMDS1		HMASMZAP	r P					
CCA1BFMX CCA2BFMX	HMASMCCA HMASMCCA	. D	HMASMDSU HMASMDSU	RW	HMASMIO HMASMIO	Ř R					
CCA3BFMX CCA4BFIA	HMASMCCA	D	HMASMDSU HMASMDRV	RW	HMASMIO HMASMDSU	Ř R		HMASMIO	R		
CCA4BFMX	HMASMCCA HMASMCCA HMASMCCA	D	HMASMDSU	RW	HMASMIO HMASMIO	Ř		HINASITIO			
CCA4BFOA CCA4BFSZ CCCHRP	HMASMCCA HMASML KD	D	HMASMDRV		HMASMDSU	๊ผ					
CCDATA	HMASMLKD	DRW									
CCENTRD	HMASML KD										
CCKEY	HMASMLKD										
CCMAKPR CCMOD_	HMASMLKD HMASMLKD	D W									
CCORDER	HMASML KD HMASML KD	DR									
CCRC	HMASMLKD HMASMLKD	DR									
CCRCDNO CCRELF	HMASML KD HMASMRCD	D W									
CCSEQNO	HMASML KD HMASMRCD										
CCTYPE	HMASMLKD HMASMIO	D W									
CCWFLAG CCWFLGSV	HMASMIO HMASMIO	DRW DRW									
CCWOP CDISTLIB	HMASMIO HMASMMPE	D C									
CDISTMOD CDISTOBJ	HMASMMPE HMASMMPE	DR									
CDISTSRC CDS	HMASMMPE HMASMAAR	DR	HMASMDR1	DR P	HMASMIO	DR					
CDSCARDS CDSCHK	HMASMLKI HMASMTSB	DR	_								
CDSCHKRC CDSCIOPP	HMASMTSB HMASMTSB	D W									
CDSDDCB	HMASMIO HMASMTMD	D									
CDSDEL1 CDSDENT	HMASMTMD HMASMIO										
CDSDIRTN CDSELEM	HMASMIO HMASMDLE	Ď									
CDSELRC	HMASMDLE HMASMIO										
CDSEOF CDSFLAGS	HMASMION HMASMIPR	DR	HMASMTPR	D MC							
CDSFND	HMASMBUR	Ď ŴC									
DEDEFINIT	ION, RERE	AD, WEWRI								PEPARAMET	ER

					\$	YMBO	USAGE					
SYMBOL	MODULE	ACCES	S	MODULE	ACCI	:55	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
CDSIDCB	HMASMIO HMASMDRV	P	M									
CDSK	HMASMBUR	DRW	'' P									
CDSLOCX		DR	Þ									
CDSODCB CDSPROC	HMASMIO HMASMTM2	D R		HMASMTM3	DR							
CDSRC CDSRCHK	HMASMTPR HMASMTPR											
CDSRCIOP CDSREAD		DR	P									
CDSRTN CDSRTNBD	HMASMIO HMASMCPY	D										
CDSSAV	HMASMDRV	D	M									
CDSSYS CDSVALID	HMASMDRV HMASMTPR	D WC										
CDSWRT10 CEND	HMASMCPY HMASMFVL	DR	M _									
CHAIN CHAINBID	HMASMTAI HMASMAR4	DR	P									
CHAINPTR CHAINTXT	HMASMSEC HMASMSEC											
CHAINTYP CHALIGN2	HMASMSEC HMASMMPE	DR C										
CHANGEK CHANGR10	HMASMLKD HMASMLKD	D	M M									
CHAPF	HMASMMPE HMASMASI	DR	••	HMASMCCA			HMASHCOM	DD	HMASMCPI	DP	HMASMLKI	DR
CHARA	HMASMMCD HMASMLKD	R		HMASMMSG HMASMVLU	DR		HMASMTBL	Ř	HMASMUPI		HMASMZAP	
CHARCOL	HMASMDRV	DR		HMASMDSU	ĎR `	•						
CHARINDX	HMASMVLU HMASMDLE	DRWC										
CHARJ Charone	HMASMVLU HMASMDS1	DR		HMASMFPT	D		HMASMLCD	D				
CHARPTF Charptr	HMASMAR1 HMASMUC2	DR DRW										
CHARR Chars	HMASMVLU HMASMVLU	DR										
CHARVAL CHARZ	HMASMPEC HMASMLKD		P	HMASMVLU	DR							
CHARO CHARI	HMASMDSU HMASMLKD	D C		HMASMLOG			HMASMVLU	DR				
CHAR12 CHAR8	HMASMUC2 HMASMUC2	DRW	M									
CHAR9 CHASM	HMASML KD HMASMMPE	D C		HMASMVLU	DR							
CHASMLIB	HMASMMPE	DR										
CHASSEM CHCONSTM	HMASMMPE HMASMMPE	DR										
CHCOPY CHDALIAS	HMASMMPE HMASMMPE	DR										
CHDC Chdelete	HMASMMPE	DR										
CHECK	HMASMFVL HMASMCIL	DR		HMASMCPI	DR							
CHECKEC	HMASMDRV HMASMAR3		M									
CHECKSAV CHECK1	HMASMDRV HMASMCPI	DR	M									
CHECK2 CHECK3	HMASMCPI HMASMCOM	DR		HMASMCPI	DR							
CHJCLIN CHK	HMASMMPE HMASMTP2	DR	P		•							
CHKAPTR CHKASSEM	HMASMTMD HMASMTMD	DRW	P									
CHKBUF		DR	P									
CHKCANS	HMASMTCR	DR	P									
CHKCDSRC CHKCHN1	HMASMTCR HMASMTPD	DR	-									
CHKCHN2 CHKDELST	HMASMTPD HMASMTD1										UM 4 6 M T B 3	
CHKICT	HMASMCP2 HMASMTSB	DR		HMASMIDU	DR		HMASMTCR	UW	HMASMTD1	UR	HMASMTRI	UK
CHKICTD	HMASMTD1 HMASMTCR	D C	P									
CHKIND CHKIRTN	HMASMIDU HMASMTCR	DRW	P									
CHKKEY CHKMFMID	HMASMREC HMASMIDU	D WC										
CHKMNAME Chkpð	HMASMIDU HMASMIDI		P									
CHKPANS CHKPPTR	HMASMTMD HMASMTD1	DRM	P									
CHKPRES CHKPSMD	HMASMTMD HMASMTMD	DR	P									
CHKRC CHKSMD	HMASMFPT HMASMIDU	DRW	P	HMASMTD1	D 6	. ,						
CHKSMD# CHKSMDID	HMASMPEC HMASMTD1	D MC	P									
CHKTYPE	HMASMREC HMASMFPT	D WC	•									
CHKXFLGS CHKXMODX	HMASMTRM HMASMTRM	D W										
CHKXRC CHKXRF	HMASMTRM HMASMTRM	DRW										
CHK1XRCD	HMASMTRM	DR										
CHLEPARM	HMASMMPE	DR										
CHLKLIB	HMASMMPE	DR										
CHMACUPD CHMALIAS	HMASMMPE HMASMMPE	DR										
CHNE CHNGDISP	HMASMMPE HMASMIO	D										
CHNGMEM	HMASMREC											
D=DEFINIT	ION, RERE	AD, W=	WRI	TE, C=COM	PARE	E=EG	TUATE OPER	TAND, MEM	IACRO, A=AE	SOLUTE,	PEPARAMETE	: K

CDSIDCB - CHNGMEM

SYMBOL	MODULE	ACCES	s	MODULE	ACCESS	101	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
			_			-						
CHNPTR	HMASMTPD HMASMMPE		P									
CHREFR	HMASMMPE	DR										
CHREPFLG	HMASMLKD	D WC										
CHREPFND	HMASML KD HMASMMPE	DR										
CHRMID	HMASMMPE HMASMLCD	DR										
CHRPNAME CHRSEQNO	HMASML CD HMASML KD	DRW										
CHSCTR CHSRCUPD	HMASMMPE HMASMMPE	DR										
CHSSI CHSTD	HMASMMPE HMASMMPE	DR										
CHSYSLIB CHSYSMOD	HMASMMPE HMASMMPE	DR										
CHTALIAS CHTXLIB	HMASMMPE HMASMMPE	DR										
CHUPDATE	HMASMMPE HMASMMPE	DR										
CHZAP	HMASMMPE	DR										
CICFLAGS	HMASMTSB HMASMTSB	D W										
CICRC	HMASMTSB HMASMCIL	DR										
CILCOPY	HMASMCIL HMASMCIL	DRWC										
CILPDSN CILPTFDS	HMASMCIL HMASMCIL	D W		HMASMLKI		P						
CILPTENO CILTLIB	HMASMCIL HMASMCIL	D WC	P	HMASMLKI	D MC	P						
CKBLK	HMASMCPY HMASMLKI	D DR		HMASMDRV	D							
CKICTCDS	HMASMTSB HMASMTSB	DR										
CKICTREQ CKICTSEL	HMASMCP2	DR D WC		HMASMTR1	DR							
CKICTSUP CKIPTFX	HMASMCP2 HMASMTSB	DR		HMASMTR1	DR							
CKIRC CKISTRTI	HMASMTSB HMASMTSB	DRW										
CK1 CK1FLG1	HMASMLKI HMASMIDU	DR										
CK110P CK1MMACR	HMASMTRM HMASMIDU	DR	P									
CK1MMOD CK1MSRCR	HMASMIDU HMASMIDU	DW										
CK1XAERR CK1XDUMM	HMASMTRM HMASMTRM	DW	P									
CK1XERR CK1XFLGS	HMASMTRM HMASMTRM	D	•									
CKIXIFND CKIXIOPT	HMASMTRM HMASMTRM	DRW	1 P									
CKIXITYP CKIXOK	HMASMTRM HMASMTRM	D C	P					•				
CKIXRC CKIXRERR	HMASMTRM HMASMTRM	DRW										
CK1XX1 CK1XX2	HMASMTRM HMASMTRM	DRW N	1									
CK2 CK2FLG1	HMASMLKI HMASMIDU	DR										
CK2MMACU CK2MSRCU	HMASMIDU HMASMIDU	D W										
CK2MZAP CK3	HMASMIDU HMASMLKI	D W										
CLEANRO	HMASMAR1 HMASMTPR	DRW		HMASMAR2 HMASMXRF	DRW		HMASMAR3	DRW	HMASMAR4	DRW	HMASMREJ	DRWC
CLEARUP	HMASMDRV HMASMAAR	DR		HMASMTM2 HMASMLKI	DR		HMASMTM3	DR				
CLEN CLMODPTR	HMASMFVL HMASMTL3	DR		HILLSHER Z								
CLNRC	HMASML ID HMASMCOM	DRW		HMASMCPI	D.B.		HMASMDRV		HMASMIO		HMASMLKI	
CLOSFAIL CLRLIST	HMASMIO HMASMUC2	DR		MINOTIOF 2	.		MINGILLE	•	MMASMILO	•	HIMSHILKI	UR
CLRPASS CLRPLMDX	HMASMTSB HMASMTSB	DR	•									
CLRPMODX	HMASMTSB HMASMTSB	DRW										
CLRPRC	HMASMTSB	DRW										
CL80 CMNTSW CMNTX	HMASMUXP HMASMZAP HMASMFPT	Bwc	P									
CMOD CMPIADDR	HMASMTL3 HMASMCMP		-	HMASMTMS	DRWC	P						
CMPIINDX CMPILANG	HMASMCMP	DRW DR										
CMPIRC CMPIRTN	HMASMTPR	DŘW										
CMPITABL CMPRINDX	HMASMCMP HMASMTPR	D										
CMPRSCTR CMPRSDEL	HMASMDRV HMASMDRV	DRWC										
CMPRSELM CMPRSET	HMASMDRV HMASMDRV	DR N										
CMPRSFLG CMPRSINC	HMASMDRV HMASMDRV	DW	•									
CMPRSK CMPRSLST	HMASMDRV HMASMDRV											
CMPRSMAX CMPRSRC	HMASMDRV HMASMGTA	DRWC										
CMPRSSW1 CMPRSW	HMASMGTA HMASMGTA	D WC										
CMPRINCD CNTINPAG	HMASMCMP HMASMGTA	DRW										
CHTLPROC	HMASMREC											
D=DEFINIT	ION, REREA	10. W=W	RIT	E, C=COMP	ARE, E=	EQ	UATE OPE	RAND, M=M	ACRO, A=A	SOLUTE,	P=PARAMET	ER

					3	YMBU	L USAGE					
YMBOL	MODULE	ACCESS	_	MODULE	ACCE	:55	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCE
NTLRTN	HMASMIO	D	_									
NTRLERR NT1	HMASMLKD HMASMUC1		P									
NT2 NVACDS	HMASMUC1 HMASMDRV											
NVCDS	HMASMDRV	D C										
NVCHARX NVCHAR4	HMASMSUB HMASMSUB	DRW										
NVCNT1 NVCNT2	HMASMSUB HMASMSUB											
NVDATE NVDLIB8	HMASMF PT HMASMSUB	DR C	P	HMASMFXF	DRW		HMASMUC1	DR				
VPARM	HMASMDRV	D		HMASMION	DR							
NVPRM6 NVPRM8	HMASMSUB HMASMSUB	DRW										
NVRCCD NVREG2	HMASMDRV HMASMSUB											
IVREG3	HMASMSUB	DRW	P									
NVTIME NVTYP1	HMASMF PT HMASMT RM	DR	_									
IVTYP2 IVTYP3	HMASMTRM HMASMTRM											
VIENT VIIOPT	HMASMTRM HMASMTRM	DR	P									
IV1RC	HMASMTRM	DRW										
IV1XRFT IV2ENT	HMASMTRM HMASMTRM		P									
IV2RC IV2SELT	HMASMTRM HMASMTRM	DRW	P									
IV3IND	HMASMTRM	D C	P									
IV3ITYP IV3RC	HMASMTRM HMASMTRM	DRW	-									
IV6 NAME IV8 NAME	HMASMION HMASMION	DRW DRW										
DE	HMASMAAR	R		HMASMALC	R R		HMASMARL	R R	HMASMARI	R R	HMASMAR 2	R
	HMASMAR3 HMASMBUE	R R		HMASMAR4 HMASMBUR	R		HMASMASI HMASMCIL	R	HMASMASM HMASMCMP	R	HMASMBD L HMASMCOM	R
	HMASMCPI HMASMCRW	R R		HMASMCPL HMASMDC2	R		HMASMCPY HMASMDLE	R R	HMASMCP2 HMASMDRV	R R	HMASMCRE HMASMDR1	
	HMASMDR2 HMASMFVL			HMASMDSU HMASMFXF	R		HMASMDS1 HMASMGPF	Ř	HMASMEIS	R R	HMASMFPT HMASMIDU	R
	HMASMIO	R		HMASMI01	R		HMASMLCC	R	HMASMGTA HMASMLCD	R	HMASMLCF	R
	HMASMLC1 HMASMMCD	R R		HMASMLID HMASMMPD	R R		HMASML KD HMASMMPE	R R	HMASMLKI HMASMMPH	R R	HMASMLOG	
	HMASMMPV HMASMP11	R R		HMASMMSG HMASMRCC	R		HMASMPGC HMASMRCD	R R	HMASMPMG HMASMRCF	R R	HMASMPRM HMASMRCL	R
	HMASMRDS	R		HMASMREC	Ř		HMASMREJ	Ř R	HMASMRIO	Ř R	HMASMRJD	R
	HMASMSCN HMASMTAD	R		HMASMSEC HMASMTAI	Ř		HMASMSTA HMASMTBL	R	HMASMSUB HMASMTBM	R	HMASMSUF HMASMTCL	R
	HMASMTCR HMASMTL1	R R		HMASMTDD HMASMTL2	R		HMASMTD1 HMASMTL3	R R	HMASMTEC HMASMTMD	R R	HMASMTID HMASMTMJ	
	HMASMTMS HMASMTM4	R		HMASMTMW HMASMTPA	R		HMASMTM1 HMASMTPC	R R	HMASMTM2 HMASMTPD	R R	HMASMTM3	
	HMASMTPO	R		HMASMTPR	R		HMASMTP\$	R	HMASMTP2	R	HMASMTRM	R
	HMASMTR1 HMASMUC3	R R		HMASMTSB HMASMUC4	R R		HMASMUCD HMASMUPD	R R	HMASMUC1 HMASMUPI	R R	HMASMUC2 HMASMUXC	
DEREG	HMASMUXD HMASMAAR	R R		HMASMUXP HMASMAR1	R		HMASMVLU HMASMAR2	R R	HMASMXRF HMASMAR3	R R	HMASMZAF HMASMAR4	R
DEREG	HMASMCMP	R		HMASMCOM	R		HMASMCPI	R	HMASMCPL	R	HMASMDLE	R
	HMASMDRV HMASMGTA	P P		HMASMDR1 HMASMIDU	R R		HMASMDS1 HMASMIO	R R	HMASMEIS HMASMLCD	R R	HMASMF PT HMASML ID	R
	HMASML KD HMASMRCD	R R		HMASMLKI HMASMREC	R R		HMASMMPE HMASMSCN	R R	HMASMMPI HMASMSER	R R	HMASMMPV HMASMTMD	
	HMASMTMS	R		HMASMTM1	R R		HMASMTM2	R R	HMASMTM3	R	HMASMTM4	R
	HMASMTPA HMASMUC1	R		HMASMTPL HMASMUC2	Ř		HMASMTPR HMASMUC4	Ř	HMASMTRM HMASMUPD	R R	HMASMTSE HMASMUPI	
DUMP	HMASMZAP HMASMZAP	P DRW										
) L	HMASMCP2 HMASMP01	R		HMASMGPF HMASMP02	R R		HMASMMCD HMASMP03	R R	HMASMPMG HMASMP04	R R	HMASMPRM HMASMP05	
	HMASMP06	Ř		HMASMP07	R		HMASMP08	R	HMASMP09	R	HMASMP10	R
	HMASMP11 HMASMRIO	R R		HMASMP12 HMASMTMS	R R		HMASMP13	R	HMASMP14	R	HMASMP15	R
LPTR	HMASMRCD HMASMMPD	DRWC		HMASMMPE	DP		HMASMMPH	DP	HMASMMPI	D.P.	HMASMMPV	DP
	HMASMUPI	DR										
LSTR	HMASMMPD HMASMUPI	DR		HMASMMPE	DR		HMASMMPH	DR	HMASMMPI	DR	HMASMMPV	DR
LUMN LUMN1	HMASMUCI HMASMUCI	D		HMASMUC3 HMASMUC3			HMASMUC4					
LUMN2	HMASMUC1	DR		HMASMUC3			HMASMUC4					
MCMPRS	HMASMD LE HMASMCOM											
MDFLT MDFLTP	HMASMDS1 HMASMDS1											
MMA	HMASMCPI	DR		HMASML KD	D C	;	HMASMLKI	DR	HMASMSCN	D C	HMASMTPO	DR
MMA1	HMASMUPI HMASMCPY	D		HMASMLKD	D	M						
MMA1A	HMASMCPY HMASMCPY	D										
MMA3	HMASMCPY	D										
MMA4	HMASMCPY HMASMCPY	D										
MMA6	HMASMCPY HMASMCPY	D										
MNDX	HMASMBDL	DR		HMASMIICA	n =							
MPLETE	HMASMCP2 HMASMLKI	DR		HMASMUC2								
MPRESS MPRSRC	HMASMCOM HMASMTPR	DR DRW		HMASMTPR	DR							
MPSTOP	HMASMGTA HMASMDS1	D WC										
MRTNCD	HMASMCOM	DRW		UM 4 8 M - M .	B B							
ON ONAME	HMASMCPL HMASMZAP	DR		HMASMTMJ	DRWC	•						
ONS ONSTANT	HMASMZAP HMASMAAR	D M		HMASMALC		м	HMASMAR1	м	HMASMAR2	м	HMASMARS	

SYMBOL USAGE SYMBOL MODULE ACCESS MODULE ACCESS MODULE ACCESS MODULE ACCESS MODULE ACCESS HMASMCIW HMASMOOI HMASMIJO HMASMIJO HMASMROD HMASMRUP HMASMRUP HMASMITUR HMASMITUR HMASMITUR HMASMITUR HMASMITUR HMASMITUR HMASMITUR HMASMITUR HMASMITUR HMASMITUR HMASMITUR HMASMITUR HMASMITUR HMASMITUR HMASMITUR HMASMITUR HMASSMEDULL HMASSMEDE HMASSMEDE HMASSMEDU HMASSMEDULL HMASSMETULL HMASMASM HMASMCPY HMASMDRY HMASMFPT HMASMLCD HMASMLOG HMASMMPV CONSTANT HMASMAR4 HMASMBUE EEEEEEEEEEEEEE EEEEEEEEEEEEEE EEEEEEEEEEEEEE ************* HMASMAR4 HMASMCPL HMASMDLE HMASMLCC HMASMLKD HMASMLKD HMASMMPI HMASMBUE HMASMCP2 HMASMDR1 HMASMFVL HMASMLCP HMASMMPD EEEEEEEEEEEEEE HMASMPGC HMASMRCF HMASMSEC HMASMTAD HMASMTDD HMASMTMD HMASMRCL HMASMSER HMASMTAI HMASMTD1 HMASMTMJ HMASMPGC HMASMREC HMASMSTA HMASMTBM HMASMTEC HMASMTMS HMASMTM4 HMASMTPA HMASMTPR HMASMTSB HMASMVLU HMASMTM2
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CONSTANT - CRPGOOD

				SYMBO	L USAGE					
SYMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
CRPGOOD CRPINDS	HMASMUC2 HMASMASM HMASMLCP	м. СС	HMASMUC4 HMASMCPY HMASMLKD	000	HMASMUPD HMASMCRD HMASMREC	R W	HMASMCRP HMASMTMD	D W	HMASMDRV HMASMTMJ	W
ABODEROJAMA 5-678 MAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMAMA	HMAASSMCCRP HMAASSMCCRP HMAASSMCCRP HMAASSMCCRP HMAASSMCCRP HMAASSMCCRP HMAASSMCCRP HMAASSMCCRP HMAASSMCCRP HMAASSMC HMA	00000000000000000000000000000000000000	HMASMUPD	RWC						
CRPINSW9 CRPLIST CRPLOG CRPLOGCK	HMASMCRD HMASMCRD HMASMCRD	D C C C	HMASMCRP HMASMCRP HMASMCRP	B	HMASMDRV HMASMDRV HMASMDRV	MC MC	HMASMREC	ш	HMASMTMD	W
CRPOFFST CRPOTHER	HMASMCRD HMASMCRD HMASMCRD	_ C _	HMASMCRP HMASMCRP HMASMCRP	D	HMASMREC HMASMREC	M	HMASMTMD	W		
CRPOUTDS CRPPRINT	HMASMCRD HMASMCRD HMASMTMD	R C	HMASMCRP HMASMCRP	D D	HMASMDRV	W	HMASMMPH	С	HMASMREC	MC
CRPPTS CRPRETRN	HMASMCRD HMASMASM HMASMLCP HMASMMPV HMASMTPC	CCCCC RWCCC	HMASMCRP HMASMCPY HMASMLKD HMASMREC HMASMUC1	D RRCC	HMASMREC HMASMCRD HMASMMPE HMASMTMD HMASMUC2	RE COO	HMASMTMD HMASMCRP HMASMMPH HMASMTMJ HMASMUC3	D CCC	HMASMDRV HMASMMPI HMASMTMW HMASMUC4	RRRR
CRPRPT CRPSCNCL CRPSCPAD	HMASMUPD HMASMCRD HMASMASM HMASMLCP HMASMMPI HMASMUC?	R R R R	HMASMCRP HMASMCRP HMASMCPY HMASMLKD HMASMMPV HMASMUC3		HMASMDRV HMASMDRV HMASMCRD HMASMMPD HMASMREC HMASMUC4	WC WC W W	HMASMPEC HMASMCRP HMASMMPE HMASMTMD HMASMUPD	E E E	HMASMTMD HMASMDRV HMASMMPH HMASMUC1	33 3 R
CRPTFUNC CRPTPTEX CRPTTSMP CRPUXNUM CRPWRTLG CRPWRTLG CRQDEDCB	HMASMCRP HMASMCRP HMASMCRD HMASMCRD HMASMCRD HMASMCRD HMASMIO HMASMIO	D D	HMASMMPE HMASMCRP HMASMCRP HMASMCRP HMASMCRP HMASMIO	R D D D D D D D D	HMASMREC HMASMREC HMASMREC	M CC	HMASMTMD	ш		
CRQDRTN CRQDRTN CRQEOF CRQEIOF CRQIOP CRQIO CRQIO	HMASMIO HMASMIO HMASMIO HMASMIO HMASMIP HMASMIPV	D R	•							
CRQODCB CRQPEQ CRQRTN CRQSAV CRWCAUSR CRWENVIR	HMASMIO HMASMIP 2 HMASMIO HMASMORV HMASMORW HMASMORW	D M	•							
CRWRETRN CSECT CSECTN CSECTNK CSGEOF	HMASMCRW HMASMUC1 HMASMLKD HMASMLKD HMASMTP2	DRWC DRW DR DR								
CSGFLAG CSMPTLIB CSMPWRK3 CSNAME CSR CSRBUFFR	HMASMTP2 HMASMTM1 HMASMTM1 HMASMZAP HMASMEIS HMASMTP2	DR DR D								
CSRCHK CSRCODE CSRGTA CSRGTARC CSRNDX	HMASMTPD HMASMTP2 HMASMTP2 HMASMTP2 HMASMTP2	DRW DRWC DRW								
CSRNM CSRST CSRVALID CTLBUFF CTLSTMT CTYPE	HMASMTP2 HMASMTP2 HMASMLKI HMASMLKI HMASMFVL	D U U U U U U U U U U U U U U U U U U U								
CU CURASSEM CURBUFF CURDISRC CUREFMID CURELEM	HMASMAR HMASMAR 2 HMASMAR 2 HMASMAR 2 HMASMAR 2 HMASMAR 2	DRWC DRWW DRRW DDRW								
CURERTAT CURESTAT CURIND CURIOP CURKEY CURLEN	HMASMAR2 HMASMAR2 HMASMAR1 HMASMSEC HMASMAR2 HMASMMSG	DRWC DRWC DR DR	•							
CURLMOD CURMSLIB CURNTLMD CURPAG CURPGPTR	HMASMAR2 HMASMAR2 HMASMDLE HMASMGTA HMASMGTA	DRW DRW DRW DRW DRW DRW	,							
CURPOS CURPSTAT CURPTF CURPTR	HMASMGTA HMASMAR2 HMASMAR2 HMASMTPR	D RWC D RWC								

CURPTE HMASMARZ DRWC CURPTE HMASMTPR DRWC CURRCD HMASMGTA DRW D=DEFINITION, R=READ, W=WRITE, C=COMPARE, E=EQUATE OPERAND, M=MACRO, A=ABSOLUTE, P=PARAMETER

VMBO!	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE ACCES	S MODULE ACCE
YMBOL	MODULE	ACCESS	MODULE	ACCESS		ACCESS	MODULE ACCES	S MODULE ACCE
JRSTAT	HMASMGTA		_					
JRSYM Jrsysm	HMASMSEC HMASMRCD	D WC	P					
JRSYSM# JRSYS1	HMASMRCD HMASMAR 2							
JRSYS2 JRTYPE	HMASMAR 2 HMASMAR 2	DRW						
/B	HMASMDRV HMASMTM1		HMASMLOG		HMASMMP EMTMZAMH		HMASMREC R HMASMUCI R	HMASMTMJ R Hmasmuc2 R
/D	HMASMAAR	Ř	HMASMTM2 HMASMASI	R	HMASMASM	R	HMASMCIL R	HMASMCOM R
	HMASMCPI HMASMFVL	R	HMASMDRV HMASMIO	R	HMASMDSU HMASMLCD	R	HMASMEIS R HMASMLCP R	HMASMFPT R HMASMLKD R HMASMMPH R
	HMASMLKI HMASMMPI	R R	HMASML OG HMASMMP V	, B	HMASMMPD HMASMMSG		HMASMMPE R HMASMRCD R	HMASMMPH R HMASMSUB R HMASMUPI R
	HMASMUC1 HMASMZAP	R	HMASMUCE	R	EDUMZAMH	R	HMASMUC4 R	HMASMŪPĪ R
DWORK	HMASMFPT HMASMFPT	DR	HMASMLCF	DR	HMASMUCI	DR		
DWORK 3	HMASMLCP	DR	HMASMUC1	DR				
ERSION	HMASMMPE HMASMASM	DR C						
TA TMVS2	HMASMSTA HMASMSTA							
TPTR T2SPS	HMASMALC HMASMSTA	D	HMASMSTA	DW				
T4MS1	HMASMSTA	С						
T6DAT EROS	HMASMSTA HMASMTM1	DR	HMASMTM2		HMASMTM3		HMASMTM4 D	
CDS	HMASMAR4 HMASMDR1	DR	HMASMCOM	DR	P HMASMIO	М	HMASMLCC DRWC	HMASMPGC D W
CRQ DSMCD	HMASMDR1 HMASMALC		Р					
LFND	HMASMMPE HMASMMPE	D M						
LKEY	HMASMMPE	D M						
LUPAR	HMASMMPE HMASMMPE	D						
LRPAR LVAL	HMASMMPE HMASMMPE	D M						
L2KEY L2LPAR	HMASMMPE HMASMMPE	D M						
L2RPAR L2VAL	HMASMMPE HMASMMPE	Ď M						
SH	HMASMAR1	DR						
SHES Ta	HMASMCRD HMASMALC	R	HMASMZAP HMASMASM	l R	HMASMBDL	R	HMASMCPY P	HMASMDRV R
	HMASMDSU HMASMLKD	R	HMASMGTA HMASMMPD	R	HMASMIO HMASMMPE	R R	HMASMION R HMASMMPH R	HMASMLCP R Hmasmmpi R
	HMASMMPV HMASMUC3	R R	HMASMMSG HMASMUC4	R	HMASMREC HMASMUPD	R R	HMASMUCI R HMASMZAP R	HMASMUCŽ R
TAFSW TAITEM	HMASMUPD HMASMTAI	DWC						
TALEN TALINE	HMASMTAI HMASMRCL		P HMASMUCZ	DRW				
TAPTR	HMASMTAI	D	P					
TASAVE TASTRT	HMASMUC1 HMASMMSG	DR						
TA1 TA16	HMASMRCF HMASMVLU	DRWC						
TE TEDDD	HMASMIO HMASMIO	DR DR						
TEENT TEFLD	HMASMUC1 HMASMIO							
TEFUNC	HMASMFPT	ĎΜ						
TELINE TEMSG	HMASMF PT HMASMDSU	DR						
TEOP TEPTR	HMASMDSU HMASMUC1	D W						
TEWORK TEYY	HMASMFPT HMASMIO	DR DR						
LWORD	HMASMF PT HMASMSUB		HMASMFXF	DR	HMASMIO	DRW	HMASMUC1 DRW	
LWRD	HMASMAAR	D R	HMASMDRV	DR	HMASMDSU	DR	HMASMIO DR	HMASMLKD DR
YLINE	HMASMFPT HMASMLKI	ĎR						
B Bblksi	HMASMAAR HMASMIO	_ RWC						
BDCLS BDDNAM	OIMSAMH OIMSAMH	D RW						
BDEBA	HMASMIO HMASMIO	Ř C						
BDSORG	HMASMIO	W						
BERACC	HMASMIO	D M						
BEXIT BIOBA	HMASMIO	DR R						
BKEYLE Blrecl	HMASMIO HMASMIO	RMC						
BMRECP BNO	HMASMIO HMASMIO	W DRWC						
BOFLGS	HMASMIO HMASMIO	RW						
BOFOPN	HMASMBDL HMASMBDL	С	HMASMDRV HMASMDRV	D BMC	HMASMIO HMASMIO	DRWC M		
BRECFM	HMASMIO	W	HIMAIIURV	URM	HUMSPITO	DRWC M		
BRECL Brelad	HMASMIO HMASMIO	_ RW						
BS B×L	HMASMIO HMASMIO	D R						
S LS	HMASMDR1 HMASMALC		HMASMAR1	м	HMASMAR2	м	HMASMAR3 M	HMASMAR4
	HMASMASM HMASMCPY	M	HMASMBUE	M	HMASMBUR	M	HMASMCIL M	I HMASMCPL
	HMASMDRV	M	HMASMCP2 HMASMDR1	M	HMASMCRD HMASMDR2	M	HMASMDSU M	HMASMDS1
	HMASMFPT HMASMLCD	M M	HMASMFVL HMASMLCP	M M	HMASMFXF HMASMLC1	M M	HMASMIO1 M	I HMASMLKD
	HMASMLOG	M	HMASMMPD	M	HMASMMPE	М.	HMASMMPH M	HMASMMPI

CURSTAT - DCLS

SYMBOL	MODULE	ACCESS	MODULE	ACCE	ss	MODULE	ACCE	SS	MODULE	ACCES	:s	MODULE	ACC	ESS
oct s	HMASMMPV HMASMRCF HMASMSEC HMASMTAD HMASMTDD HMASMTMD HMASMTM2 HMASMTPD HMASMTPD	EEEEEEE	HMASMPGO HMASMRCI HMASMTAI HMASMTDI HMASMTMI HMASMTMI HMASMTRI HMASMTRI		EEEEEEEE	HMASMPRM HMASMREC HMASMTBM HMASMTBC HMASMTMS HMASMTMS HMASMTM9 HMASMTPO HMASMTP1	С	******	HMASMREJ HMASMREJB HMASMTUB HMASMTL1 HMASMTHW HMASMTPA HMASMTPA HMASMTSB		EMEREEEEE	HMASMRUD HMASMRUDH HMASMTUR HMASMTL3 HMASMTM1 HMASMTPC HMASMUCD		EEEEEEEE
DCLSTRT DCRQ DCLSMSG DCLSMSG DCLTMSG DC2DSIDA DC2QSTP1 DC2QSTP2 DC2GTP3 DC2GTP3 DC2GTP3 DC2GTP3 DC2GTP3	HMASMDC2 HMASMDC1 HMASMDC1 HMASMDC1 HMASMDC2 HMASMDC2 HMASMDC2 HMASMDC2 HMASMDC2 HMASMDC2 HMASMDC2 HMASMDC2 HMASMDC2 HMASMDC2 HMASMDC2	33333333333333333333333333333333333333	HMASMUCE P HMASMMSG HMASMMSG	a R	M	HMASMUXC		М	HMASMVLU		М	HMASMXRF		М
C2SEGTP C2TYPEA DD DDACC DDAPP	HMASMDC2 HMASMDC2 HMASMRIO HMASMDR1 HMASMDR1	DR DW	HMASMUPD	D C										
DDCONT1 DDCOUNT DDD DDDELRTN	HMASMASM HMASMCIL HMASMIO HMASMIO	D W	HMASMCOM	סו		HMASMCPI	D		HMASMLKI	D				
DDDNAME DDDJ DDJCL DDL DDLIST DDLMDPTR DDLNG DDLOG	HMASMTDD HMASMTDD HMASMTDD HMASMTDD HMASMTDD HMASMTDD HMASMASI HMASMASI HMASMDR1 HMASMDR1	M E												
DDM DDNAME DDNAMES DDNEW1 DDNIGTX DDNIP DDNIP DDNIP DDNIP1	HMASMTDD HMASMTDD HMASMASI HMASMASM HMASMASW HMASMCPY HMASMCPY HMASMCPY HMASMCPY	DRW DR C I D M DRWC	P HMASMDRV HMASMCIL		м	HMASMDR1 HMASMCOM		м	HMASMUPD HMASMCPI		М	HMASMLKI	D	м
DDREESTP	HMASMOPY HMASMORI HMASMORI HMASMORI HMASMORI HMASMORI HMASMORI HMASMORI	D R C	HMASMRIO	D WC										
DSW DDUCL DD1 DD2	HMASMUPD HMASMDR1 HMASMCIL HMASMCIL	D W W D D D	HMASMCOM HMASMLKI			HMASMCPI	D							
D3 D4 D5	HMASMCIL HMASMCIL HMASMCIL	D D R	HMASMCOM HMASMCOM HMASMCOM	D		HMASMCPI HMASMLKI	D		HMASMLKI	_			_	
E EC ECALLOC ECCOL	HMASMAAR HMASMBUE HMASMEIS HMASMUC1	R DR	HMASMCPL HMASMUC3	R		HMASMCRD HMASMCRD	R		HMASMUPI HMASMDSU	R		HMASMZAP HMASMIO	R	
ECCOL1 ECK ECNO	HMASMUC1 HMASMASI HMASMASI HMASMMPV	DR DR	HMASMUC3 HMASMMPD HMASMMSG	DR DR		HMASMUC4 HMASMMPE HMASMUPI	DR D R		HMASMMPH HMASMZAP			HMASMMPI	DR	
ECNO1 ECODE	HMASMMPD HMASMUPI HMASMION	DR WC	HMASMMPE	DR		HMASMMPH	DR		HMASMMPI			HMASMMPV	DR	
ECPAD ECREQD EFS	HMASMEIS HMASMALC	DR R	HMASMUC3	R		HMASMUC4	D R		HMASMIO	R		HMASMION	R	
EL ELCHK ELCK ELEMOD	HMASMREC HMASMEIS HMASMTMS HMASMTPA HMASMCOM	DR DR DR	HMASMUC2 HMASMMPE	R		HMASMUC1			HMASMUC3					
ELENTO ELENTRO ELENTRY ELERR	HMASMDLE	DRW F	•	_										
ELETCHK ELETED ELETIT ELETIT ELFCTGS ELFND ELFND	HMASMUCI HMASMCOM HMASMARI HMASMCOM HMASMTMD HMASMTPA HMASMPPE HMASMPE	DR DR DR DD DD DD DD	HMASMUC3 HMASMAR2 HMASMAR4	DR		HMASMUC4 HMASMMPV HMASMTMS	D WC		HMASMTPA	D C	P	HMASMUXC	R	
ELFND1 ELGET ELGTP ELICTP ELICTP ELINDX1	HMASMMPE HMASMTPA HMASMTD1 HMASMCOM HMASMTPA HMASMREC	D WC DR DRW DRW												

				SYMBO	L USAGE					
SYMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
DELKEY1 DELKEY5	HMASMMPE HMASMMPE									
DELLMD	HMASMDLE	D WC								
DELLMMSG DELLMODS	HMASMD LE HMASMD LE	DR								
DELLMRC DELMEMBR	HMASMDLE HMASMDLE	DR								
DELMEMRC DELMFCTN	HMASMD LE HMASMTMD	DCF	•							
DELMNAME DELMSMD	HMASMTMD HMASMTMD	D C F	•							
DELMTYP Delnm	HMASMTMD HMASMTD1	D W	•							
DELNOGO DELNT	HMASMCPL HMASMTD1	DRW								
DELRC	HMASMALC HMASMSUP	DRW	HMASMBUR HMASMTPA		HMASMCPL	DRWC	HMASMGTA	DRW	HMASMRE.	DRWC
DELSELCK	HMASMTPA HMASMTPA									
DELSKIP	HMASMTPA HMASMTPA	D WC	HMASMUC3	D WC						
DELSMRC DELSW	HMASMRCD HMASMAAR	DRW F	,							
DELSW1 DELSYSM	HMASMCOM HMASMRCD	D								
DELSYSMD DELTA2BL	HMASMAR4 HMASMTPR	D W	HMASMTMD	DR P	•					
DELTCHK	HMASMTP2 HMASMTP2	DR	,							
DELTCSR	HMASMTP2 HMASMTCR	D C F								
DELTSMD DELTYP	HMASMTP2 HMASMEIS	DR F	•							
DELT2BUF DELT2GTP	HMASMTBL HMASMTBL	DRW								
DELX	HMASMBUR HMASMTD1	DPW	HMASMUXC	DRW						
DETERRO	HMASMUXC HMASMBDL	DRWC F		DR M	HMASMDSU	DR M	HMASMIO	DR M	HMASMTDE	DR M
DEVDDA	HMASMT L 2 HMASMBD L		HMASMDRV		HMASMIO	R				
DEVDDNAM	HMASMBDL HMASMTL2	DR	HMASMDR1		HMASMDSU	DRW	HMASMIO	DRW	HMASMTD	DRWC M
DEVTYPE	HMASMBDL HMASMTDD	R R	HMASMCOM HMASMTL2		HMASMDRI	. R	HMASMDSU	J R	HMASMIO	R
DFND DI	HMASMEIS HMASMTMS	DRW	HMASMTP2	DRW						
DIDCALL DIM	HMASMDRV HMASMALC	С	HMASMAR1 HMASMCCA		HMASMAR 2		HMASMAR?		HMASMAR 4	
	HMASMBDL HMASMDC2		HMASMDRV	/ R	HMASMEIS	R	HMASMEPT	R	HMASMEX!	C
	HMASMIO HMASMLOG	R	HMASMRCL	R	HMASMREC HMASMTP2	R	HMASMSEC	, R	HMASMSUE	3 R
DIMPFMID	HMASMTPA HMASMUPD HMASMAR4	R	HMASMUXC		HHASHIPE		HILASITISE	, "		, , ,
DINDX	HMASMAR3 HMASMRIO	DRW								
DIRBASE DIRBKCT	HMASMEIS HMASMEIS	DR C								
DIRBUFFR DIRDATA	HMASMRDS HMASMRDS	DR								
DIRENT	HMASMRDS HMASMAAR	R	HMASMIO	DR P	HMASMRDS	DR				
DIRREQ DIRUDOB	HMASMRIO HMASMIO									
DISISW	HMASMIO HMASMMPE	D MC								
DISMDEL1 DISNMFND	HMASMMPE HMASMMPE	D M								
DISOPT	HMASMDR1 HMASMIO	D WC	HMASMRDS	D WC						
DISPMOD DISPNEW	HMASMIO HMASMIO	D C								
DISPOLD	HMASMIO HMASMSER	DR								
DISREQ DISRPAR	HMASMDR1 HMASMMPE	D F	•							
DISSDEL1 DISTCHK	HMASMMPE HMASMTM2	D M	HMASMTM	DR						
DISTOEL	HMASMMPE HMASMMPE	D M								
DISTREY1 DISTLBIT	HMASMMPE HMASMMPE	D M								
DISTLIB DISTLIB2	HMASMAR 2 HMASMAR 2	DR DR								
DISTMOD DISTMOD1	HMASMMPE HMASMMPE	D M								
DISTMOD2 DISTMOD3	HMASMMPE HMASMMPE	D M								
DISTMOD4 DISTOBJ1	HMASMMPE HMASMMPE	D M								
DISTOBJ2 DISTOBJ3	HMASMMPE HMASMMPE	D M								
DISTOBJ4 DISTSRC	HMASMMPE HMASMMPE	D WC								
DIST2KEY DISUPD	HMASMMPE HMASMDR1	D								
DISVAL Diszkey	HMASMMPE	D								
DIS2LPAR DIS2RPAR	HMASMMPE	D M								
DIS2VAL DIS3LPAR DIS3RPAR	HMASMMPE HMASMMPE HMASMMPE	D								
DIS3VAL DIS4KEY	HMASMMPE HMASMMPE	D	. 							
D=DEFINIT	ION, RERE	AD, W=WRI	TE, C=COM	IPARE, E=E	QUATE OPE	RAND, M=	MACRO, A=A	BSOLUTE,	PEPARAMET	TER

DELKEY1 - DIS4KEY

SYMBOL USAGE MODULE ACCESS MODULE ACCESS MODULE ACCESS MODULE ACCESS SYMBOL MODULE ACCESS DISSIPPAL PRESTS DISSIPPAL RESTS DISSIPPAL RES STA 110VR TO STAND HOS WE VMLD12340DJLIIBBR SAWL MATCHD12340DJLIIBBR SAWL MATCHD12340DJLIIBBR SAWL MATCHD12340DJLIIBBR SAWL MATCHD122340DJLIIBBR SAW HMASMUC1 D WC HMASMTM3 D WC Р HMASMDR1 D

DEDEFINITION, REREAD, WEWRITE, CECOMPARE, EMEQUATE OPERAND, MEMACRO, ASABSOLUTE, PEPARAMETER

DIS4LPAR - DREQLST

				SYMB	OL USAGE					
SYMBOL	MODULE	ACCESS	MODULE -	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
DREED SUPPLIES OF	HMASMDRI HMASMDRI HMASMDRI HMASMDRI HMASMDRI HMASMIDU HMASMIPU HMASMDRV HMASMDRV HMASMDRV HMASMDRV HMASMDRV HMASMDRV HMASMDRV	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	HMA SMP RR	м с						
DRILOADDD DRIFF WAS DRILO DRIFF DRIF	HMASMORI HMA	C CC CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	HMASMUX	P R						
DSBFNAME DSBFPTRO DSBFPTRO DSBFRIZI DSBFRIZI DSBLKCT DSSCALMAP DSCCALMAP DSCCALMAP DSCCALMAP DSCCAMAP	HMASMEIS HMASMIO HMASMIO HMASMIO HMASMIO HMASMIS HMASM	U COCC CC CCCC CCCC CCCCCCCCCCCCCCCCCCC	HMASMSC HMASMUP HMASMUP HMASMSC HMASMSC HMASMSC	PD R PD PD						
DSCEND DSCEOLST DSCFLAGS DSCFLAX DSCHOP DSCKEYLN DSCMAXIN DSCMAXIN DSCNUMER DSCRC DSCRC	HMASMSCP HMASMSCP HMASMSCN HMASMSCN HMASMSCN HMASMSCN HMASMSCN HMASMSCN HMASMSCN HMASMSCN HMASMSCN HMASMSCN HMASMSCN HMASMSCN HMASMDRV	W W C CCCCCC	HMASMSC P HMASMSC HMASMSC HMASMSC HMASMSC	P D P D P D	HMASMUPE HMASMUPE					
DSCRTAD DSCSUCAD DSCVER# DSDUNAME DSDIR DSDIR DSDIRLN DSECT	HMASMSCN HMASMSCN HMASMTPA HMASMEIS HMASMEIS HMASMEIS HMASMAON HMASMMPP HMASMSCP		HMASMSC HMASMSC P HMASMCP HMASMIO HMASMUC	PD Y R P C	HMASMDR\ HMASMIOI HMASMMPI HMASMUCA	R	HMASMDSU HMASMLCP HMASMMPV HMASMUC4	R R R R	HMASMDS1 HMASMMPD HMASMSCN HMASMUPD	R R R R
DSFIRST DSFLAGS1 DSGTPFRS DSGTPGST DSIBUFR DSIDUFR DSIDARRY DSIDARRY DSIDSET DSIDSET DSIDVALA DSMAIN	HMASMEIS HMASMEIS HMASMEIS HMASMEIS HMASMEIO HMASMIO HMASMIO HMASMIO HMASMIO HMASMIO HMASMIO HMASMIO HMASMIO HMASMIO HMASMIO HMASMIO HMASMIO	C C C C C C C C C C C C C C C C C C C	P HMASMRCI		HMASMRDS		HMASMRIO	r C	HMASMTP2	
DSMEMMAX DSMEMUSE DSMESKON DSSMES DSSMES DSSMES DSSNEV DSSNev DSS	HMASMEIS HMASMEIS HMASMEIS HMASMEIS HMASMARV HMASMASM HMASMASM HMASMASM HMASMSUB HMASMIO	MMM WWW WWW WWW WWW WWW WWW WWW WWW WWW	HMASMRI	o P						
DSORGPO DSORGPS DSPCP DSPDOT DSPFLINE DSPLVL D=DEFINIT	HMASMIO HMASMUC2 HMASMUC2 HMASMUC2 HMASMC2 ION, R=RE	D M	HMASMDR' HMASMLC	P D	EQUATE OPE	RAND, ME	MACRO, A=A	SSOLUTE,	P=PARAMET	ER

YMBOL	MODULE	ACCESS	MODULE	ACCESS	L USAGE Module	ACCESS	MODULE	ACCESS	MODULE	ACCES
			HODOLE					ACCESS		ACCES
SPNUL	HMASMUC 2									
SPOP SPTS	HMASMUC2 HMASMDRV	' D								
SRC SSCD S	HMASMRCD HMASMDRV									
SSCP	HMASMUC 2	: D M								
SSDIR SSNUL	HMASMUC2 HMASMUC2									
SSOP SSPLINE	HMASMUC 2 HMASML CP									
SSPRI	HMASMUC 2	D M								
SSSEC SSTS	HMASMUC2 HMASMDRV	, D M								
STKEY2	HMASMMPE	D M	UMAGMBBM							
SU SUFLG1	HMASMDSU HMASMDSU	. M	HMASMPRM	ı c						
SUGETMN SUOPEN	HMASMDSU HMASMDSU									
UPARM	HMASMDSU	P	•							
SUPDATA SUPLEN	HMASMDSU HMASMDSU	RC								
SURTNOD SICCAST	HMASMDSU HMASMDS1									
SIDFLT	HMASMDS1	. DR								
SIDSORG SIFLAGS	HMASMALC HMASMTPL	: C								
SIGMIOP	HMASMDS1	DR								
SIINIT Siiop	HMASMDS1 HMASMDS1	DR P	•							
SIRC SIREAD	HMASMTPL HMASMTPL									
SIRTNOD	HMASMDS1	DRWC								
SISLCHK SISYSLC	HMASMDS1 HMASMDS1									
SIVALID SEFLAGS	HMASMTPL HMASMTPL	D MC								
2RC	HMASMTPL	DRWC								
S2READ S2VALID	HMASMTPL HMASMTPL	DR DWC								
FNSBHD	HMASMFPT	. D								
2IOP 2RC	HMASMTPR HMASMTPR	DRW								
JMMY1 JMMY2	HMASMTMD HMASMTMD									
JMPSW	HMASMZAP	D WC								
JPCHK JPDACC	HMASMREC HMASMDR1									
JPDAPP	HMASMDR1	. D								
JPDJCL JPDLOG	HMASMDR1 HMASMDR1									
JPDLST JPDREC	HMASMDR1 HMASMDR1	. D								
UPDREJ	HMASMD'R1	. D								
UPDRES UPDRST	HMASMDR1 HMASMDR1									
JPDSMP JPDUCL	HMASMDR1 HMASMDR1	. D								
JPELEM	HMASMMPE	DR								
JPKYWRD JP347	HMASMMPE HMASMREC	DR DWC								
JP362 NORD	HMASMREC HMASMAAR		HMASMASI		HMASMASM		HMASMCIL		HMASMCOM	
NORD	HMASMCPI	. D	HMASMDRV	' D	HMASMDR1	D	HMASMDSU	D	HMASMEIS	D
	HMASMF PT HMASMMPD		HMASMIO HMASMMPE	D D	HMASML KD HMASMMPH		HMASMLKI HMASMMPI		HMASMLOG HMASMMPV	D
	HMASMRCD	D	HMASMREC	D	HMASMSER	D	HMASMSUB	D	HMASMTM1	D
	HMASMTM2 HMASMUPI	: D	HMASMTM3 HMASMZAP	D	HMASMUC1	U	HMASMUC2	ь	HMASMUC4	D
PCRD PDATA	HMASMTPR HMASMTPR	RW	HMASMTRM HMASMTRM							
2 R F D E L	HMASMTPR	DW	HMASMTRM	I D						
RFERR	HMASMTPR HMASMTPR	DW	HMASMTRM HMASMTRM	ID C						
RFOK	HMASMTPR	DW	HMASMTRM HMASMTRM	DC						
RSMD	HMASMTPR	DW	HMASMTRM							
20 24	HMASMSCN HMASMSCN	I DRW I D W								
28	HMASMSCN	I DR								
•	HMASMSCN HMASMASM		HMASMDRV	R	HMASMGTA		HMASMIO	R M	HMASMMSG	R
CDIC	HMASMRDS HMASMRCD		HMASMSTA	R	HMASMSUB	R	HMASMUPD	R		
BCZEROS	HMASMUC 2	DR	UM 1 6145 5		UMA AND AT		UM		UM 4 814-5	
•	HMASMASM HMASMRDS		HMASMDRV HMASMSTA		HMASMDSU HMASMSUB	R R	HMASMGTA HMASMUPD	R R	HMASMIO	R
B Pl	HMASMMSG HMASMUC2	DR								
:P2	HMASMUC2	D M								
AYSAV NT1A	HMASMDRV HMASMUC2									
NT2 SVCTYP	HMASMUC 2 HMASMTPO	D)							
GHT	HMASMDRV	D	HMASMDS1	D						
SBLDL	HMASMEIS HMASMEIS	DR								
SFORM	HMASMEIS HMASMEIS	DR								
SGETN	HMASMEIS	DR								
SINIT	HMASMEIS HMASMEIS	DR								
SMIOP	HMASMEIS	DR P	•							
ISRC ISRTN	HMASMEIS HMASMEIS	R								
ISSETUP ISSPMSG	HMASMEIS HMASMEIS	DR DR								
122 blize	HMASMEIS									

DSPNUL - EISSTOWC

MO	DDULE	ACCESS	:	MODULE	ACCESS	_	MODULE	ACCESS		10DULE	ACCESS	MODULE	ACCES
ND HI	MASMEIS	DR				_							
MB HL	MASMEIS MASMEIS	D W											
1H C	MASMEIS	D											
TE H	MASMEIS MASMEIS	D R D R											
	MASMDRV Masmar2	D DRW											
OR H	MASMUC1												
r hr	MASMUC1	DRW											
	UDIMSAP UDIMSAP	DRW DR	P	HMASMTID	DR	P							
1E H1	MASMTMD MASMRCD	DR DR	P	HMASMUC1 HMASMREC	DRWC								
4H 9	MAŞMCIL	DR	P	MIASTIREO	D.K								
AN HI	MASMRCD MASMUC1	DR											
	MASMTMD MASMTMD	DR C	P	HMASMUC1	D WC								
1E HN	MASMTMD MASMTMD	DR C	P										
чн	1ASMAR2	DR											
FR HM	MASMTMS MASMTM1	DR DR C	P	HMASMTM2	DR C	P	HMASMTM3	DR C	РН	MASMTM4	DR C	P	
1H YS	MASMTMD MASMTMD	D _R C	P										
J HN	MASMIDU	D W	•	UMACMEND		P							
1E HM	1ASMIDU 1ASMIMD	D WC	P	HMASMTMD	р С	۲							
E HM	MASMTMD MASMTMD	DRW DR C	P										
J HM		D W		HMASMIDU	D MC		HMASMTMD	n p					
н	MASMIDU	D W				_	HHASHIND	D.R					
	1ASMAR3 1ASMAR3	D WC		HMASMTMD HMASMTMD		P							
нм	1ASMUC2	D C	P										
/ HM	1ASMDRV	D	P										
4H 26	1ASMTP2	D W C	Р										
		D WC M											
H :	1ASMIO	D WC											
н	1ASMTPC	D WC											
н		D WC M		HMASMTRM	D WC								
E HM		D R											
нм	1ASMUC3	D WC											
K HM		D											
4H 4H 26	1ASMTP2	D WC											
: HM	1ASMRDS	D C		HMASMTPC	D IIIC								
M HM	1ASMTEC	DR		HINASITIFC	D WC								
	1ASMTEC 1ASMRDS	P											
	1ASMMSG 1ASMTMD												
R HM	1ASMTEC	DRWC	P										
нм	IASMRDS	DR	-			_							
D HM	1ASMRDS 1ASMASI	DR C DR		HMASMTRM HMASMCMP		P							
HM	1ASMRDS 1ASMTEC	DRW											
R HM	1ASMTAD	DRW		HMASMTPC	DR	P	HMASMTP2	DR	P				
. нм	1ASMRCD 1ASMTEC	D MC	P										
	1ASMRDS 1ASMIDU			HMASMTEC	р с	P	HMASMTMD	D MC	н	MASMTRM	пω	P	
нм	ASMTEC	DR	P			•			•			•	
HM	ASMTEC	DRW											
	IASMTEC IASMTEC		P										
нм	IASMTEC IASMTEC	D W											
нм	IASMTP2	DR											
HM	ASMTP2	DR											
нм	IASMTP2	D W											
нм	IASMDRV	D DR		HMASMMPE	D		HMASMMPH	D					
V HM	IASMIO	D P W											
HM	IASMREJ	D WC											
нм	IASMEIS												
нм	IASMIO	DRW DRW											
HM	IASMEIS	DR		HMASMGTA	DR C								
нм	IASMCPY	D WC		HMASMLID	D_WC		HMASMRCD	D WC	н	MASMUPD	D WC		
V HM		DRW		HMASMIO	DRWC								
нм	ASMUPD ASMUC2	DR											
HM	ASMUC2	D M											
	ASMRCC	S D KMC		HMASMRCF	R		HMASMRCL	R	н	MASMREC	D	HMASMTCL	P
MH MH MH	ASMUP ASMUC ASMUC ASMSC	D 2 2 N	D DR 2 D M 2 D M N DRWC	D DR 2 D M 2 D M N DRWC	D DR 2 D M 2 D M N DRWC	D DR 2 D M 2 D M N DRWC	D DR 2 D M 2 D M N DRWC	D DR 2 D M 2 D M N DRWC	D DR 2 D M 2 D M N DRWC	D DR 2 D M 2 D M N DRWC	D DR 2 D M 2 D M N DRWC	D DR 2 D M 2 D M N DRWC	D DR 2 D M 2 D M N DRWC

EISSTOWD - EPILOG

					\$	YMBO	L <u>USAGE</u>						
SYMBOL	MODULE	ACCES		MODULE	ACCE	S S	MODULE	ACCE	SS	MODULE	ACCESS	MODULE	ACCESS
EPLOC EPMAC EPSRC EPSYS EPSYSMOD EQU ERR	HMASMUXC HMASMUC2 HMASMUC2 HMASMUC2 HMASMUXP HMASMUXP HMASMUXP	DR DR	EEE E	HMASMRCF		M	HMASMREC	D		HMASMTDD	,		
	HMASMTPC HMASMUC2	D //O	M	HMASMTPL	B 110	M	HMASMTPR		M	HMASMTRM	r	1 HMASMTS	в м
ERRAFTPR ERRCOL ERRENTCT ERREXIT ERRIX ERRMSG	HMASMDRV HMASMDRV HMASMIO HMASMMCD HMASMTL2 HMASMREC			HMASMUC1 HMASMDSU HMASMTMD	DRW		HMASMTMS	D.B.					
ERROR ERRC ERRSAVE1 EPRSAVE2 ERRSW	HMASMAR1 HMASMTPO HMASMIO HMASMIO HMASMUC3			HMASMAR2 HMASMUC3	DR		MMASHIMS	U#					
ERR1SW ERR2SW ESRC ESYS ESYSMOD	HMASMUC1 HMASMUC2 HMASMUC2 HMASMUC2 HMASMUC2	00000	м _	HMASMUC4 HMASMUC4									
ETEBCDIC ETSTTYPE ETYPE EXCERR EXCLK EXCLUDE	HMASMTMD HMASMTM1 HMASMASM HMASMCPY HMASMTMD	D WC	Р м	HMASMTM2 HMASMCPY HMASMDRV	D MC		HMASMTM3 HMASMLKD						
EXCLUDED EXCSAV EXEC EXECDATA EXECK	HMASMTMS HMASMDRV HMASMUPD HMASMDSU HMASMUPD	W C W	M M										
EXECPARM EXISTSMD EXIT EXITADDR EXITARRY EXITFND EXITLOE	HMASMDSU HMASMUC3 HMASMASI HMASMUXC HMASMUXC HMASMUXC	D R W C		HMASMIO HMASMUXC	DR DRWC		HMASMSCN	DR		HMASMUPD	DR		
EXITLST EXITMAME EXITPARM EXITPCEN EXITPLEM EXITPPE EXPAND EXPANDCK EXPANDSW EXPANDSW	HMASMIO HMASMUXC HMASMUXC HMASMUXC HMASMUXC HMASMUXC HMASMUXC HMASMUXC HMASMIX HMASMIX HMASMIX HMASMIX HMASMIX HMASMIX HMASMIX HMASMIX HMASMIX	0 00 00 00 3 3 3 33 6 8 8 8 8 33 0000000000000000000000000000											
EXT EXTERNAL EXTRINCD EXTSW	HMASMLOG HMASMASI HMASMMSG HMASMCRD HMASMCRD	R R D D D		HMASMCCA HMASMTBL HMASMMSG	R R D WC		HMASMCOM HMASMUPI	R		HMASMCPI HMASMZAP	R	HMASMLK:	I R
EYEARSAV F FA	HMASMDRV HMASMGPF HMASMIO	DR C		HMASMIO		M	HMASMLCC	DRW		HMASMRCD		HMASMRI	DRC
FAILED FAILSMD FB FBA FF	HMASMICR HMASMRCD HMASMIO HMASMIO HMASMIO		M M	HMASMTR1 HMASMTRM	DR DR								
FFMSMD FFOUND FFSYSMD# FIDINDX1	HMASMTPA HMASMVLU HMASMTCR HMASMREC	D WC	M P	HMASMTPL	D	M P							
FILE FILEPAGE FILESNO FILE TYPE FILE WAA FILLIN FILLPTR FINAL	HMASMUXP HMASMGTA HMASMRPH HMASMRPH HMASMMPH HMASMMSG HMASMEIS HMASMDRV	88 33 3 60000000	P										
FINISH FIRST FIRSTSW FIVE FIXED	HMASMSCN HMASMRDS HMASMCIL HMASMAR4 HMASMMCD	D WC		HMASMTPO	D WC								
FIXIOP FIX15	HMASMTBL HMASMUC2	DR DRWC		HMASMTCL									
FIX31 FJCLIN FJCLPTF FJCLRC FJCLSW	MASMRCD HMASMDR2 HMASMTMJ HMASMTMJ HMASMTMJ	D WC DRWC	P	HMASMREC	DR C		HMASMTM1	DR		HMASMTM2	DR	HMASMTM:	3 DR
FLAGSAV1 FLAGSAV2 FLAGSAV2 FLAGSAV3 FLAGSAV4 FLAGSAV5 FLBIT FLCOMPL	HMASMUC2 HMASMCOM HMASMLKD HMASMLKD HMASMLKD HMASMLKD HMASMLKD HMASMUC2 HMASMUC2			HMASMCPI HMASMUPD	D W		HMASMION HMASMVLU			HMASMLKI	D W	HMASMLOG	3 D W
FLDEL FLENDUCL FLFAIL	HMASMUC2 HMASMUC2 HMASMUC2	D WC											

FLEATL HMASMUC2 D WC
FLETELD HMASMUC2 D WC
FLETELD HMASMIC2 D WC
FLETELD HMASMICH DRW
DEDEFINITION, REREAD, WEWRITE, CECOMPARE, EERQUATE OPERAND, MEMACRO, AEABSOLUTE, PEPARAMETER

YMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCE
LNOTFND LOWS	HMASMUC2 HMASMIO	D MC	HMASMUC2	R						
LPERIOD LREP	HMASMUC2	D WC								
LUANY	HMASMUC2 HMASMUC2									
LUCD EL Ludot	HMASMUC2 HMASMUC2									
LUSH	HMASMUC1	DB	HMASMUC2	DR M	HMASMUC4	DR				
USHSW	HMASMDRV HMASMDRV	D DRW M								
1ADDR 1Blk	HMASMTBM	R								
1CHK 1CP	HMASMMPV HMASMUC2									
1D	HMASMEIS	D	HMASMUC3	D						
IDDSN IDENTRY	HMASMLCC HMASMLID									
IDHEAD	HMASMLCC									
IDHEAD2 IDRC	HMASMLCC HMASMLCC									
ID	HMASMLID	DR	HMASMMPI	D	HMASMMPV	D WC	HMASMTPC	DW		
IID#	HMASMTD1 HMASMREC		HMASMTP2	D						
IDDEL	HMASMREJ	D WC								
IDFND IDID	HMASMTEC HMASMAR4		HMASMUC3	D MC						
IDK	HMASMDRV	D								
IDLINE IDMSL	HMASMFPT HMASMTMD	D WC P	HMASMLCD	D						
IDSAV	HMASMDRV	D M								
IDSYSM IOPRTN	HMASMLCC HMASMSUB	DR								
LIBCK	HMASMTM2	DB	HMASMTM3	DR						
MOVPTR NUL	HMASMTBM HMASMUC2									
OP	HMASMUC 2	D M								
PAGPTR RC	HMASMGTA HMASMBUE	DRWC								
RCD	HMASMGTA	DRW								
RECFND TRC	HMASMGTA HMASMLID									
TTYPE	HMASMAR1	DR	HMASMAR2	DR						
VAL CADDR	HMASMUC2 HMASMEIS	D								
CARRAY	HMASMEIS	DR								
CINDX	HMASMDR1 HMASMEIS	DRW D C	HMASMEIS	DRW						
CRC	HMASMDR1	DRW								
DSUBN	HMASMCPL HMASMTSB	D WC	HMASMUXC	DR						
DSW	HMASMEIS	D WC								
PERAND	HMASMCOM HMASMMPH	DR R C								
R	HMASMUXP	Ř								
RMAT RMAT1	HMASMLOG HMASMALC	D R R	HMASMLCC							
RMAT2	HMASMLCC	D	MINASITECO							
RMAT3	HMASMLCC HMASMEIS	DBMC								
ÜND	HMASMASM	D MC	HMASMBUE		HMASMCP2	D	HMASMREC	DRWC	HMASMTCR	DR C
UNDIT	HMASMTMD HMASMLID		HMASMTR1	D						
UNDSW	HMASMALC	D WC		_						
UR TCHECK	HMASMDRV HMASMFPT	D DR	HMASMDS1	D	HMASMLC1	DR	HMASMLID	р С		
TCMNT	HMASMFPT	DR								
TCNV TDATE	HMASMFPT HMASMFPT	DR DR								
TDELBY	HMASMFPT	DR								
TDSPFX TFMID	HMASMFPT HMASMFPT	DR DR								
TJCL	HMASMFPT	DR								
TLSUP TPTF	HMASMFPT HMASMFPT									
TPTS	HMASMFPT	DR								
TSCD S TSETH D	HMASMFPT HMASMFPT	DR DR								
TSTAT	HMASMFPT	DR								
TTYPE TVER	HMASMFPT HMASMFPT									
TWRITE	HMASMFPT	DR								
EEADDR	HMASMTBL HMASMIO	D C P								
EEARC	HMASMDR1	DRW								
EEGTP Eelen	HMASMPGÇ HMASMTBL	DR DRW	HMASMTCL	DRWC						
EELENA	HMASMTCL HMASMASM	DRW	HMACMDDV	R	UMAGMOTA	_	UMAGMEG	_		_
EEMAIN	HMASMSTA	Ř	HMASMDRV HMASMSUB	Ř	HMASMGTA HMASMTBL	R R	HMASMIO Hmasmtcl	R R	HMASMRDS HMASMUPD	R
EENRC	HMASMDR1 HMASMEIS		HMASMGTA	שפת						
ETOP	HMASMTCL	DRW	Indirigit A							
DMCNT Stread	HMASMGTA HMASMUPD	D WC								
STREPL	HMASMUC1	D WC	ESUMBAMH	D WC						
FP Mdent	HMASMTPO HMASMTRM									
MDRC	HMASMTPM	DRWC								
NENTX Nent ip	HMASMTSB HMASMTSB	DRW DRW								
NFLAGS	HMASMTSB	D W								
NFOUND NRC	HMASMTSB HMASMTSB									
EMP	HMASMSUB	DRWC								
LDSN LHEAD	HMASMLCC	D W DR								
HEADS	HMASMLCC	DR								
.RC	HMASMLCC	URWU								

					3	YMBO	LUSAGE						
SYMBOL	MODULE	ACCES	:s	MODULE	ACCE	:ss	MODULE	ACCESS	_	MODULE	ACCESS	MODULE	ACCESS
UNCFAIL	HMASMTCR	DR											
UNCFM	HMASMTPA	DR	м	HMASMTPL HMASMMPH		M	HMASMTSB	DR					
UNCODE	HMASMMFD HMASMGPF	D DRW	M	HUMSHILL	U	М							
UNCRC UNCREJ	HMASMTSB HMASMREJ	DRW											
UNCT	HMASMTCL	DRW											
UNCTION UNCTKEY	HMASMAR1 HMASMREC			HMASMAR4	DR								
JNCTMSG	HMASMDRV	DR											
UNCTREC UNCTSET	HMASMAR4 HMASMRIO	DRWC											
VLLINLN	HMASMFPT	D	P	HMASMFVL	DR	P	HMASMLCD	D	P	HMASMLCP	D F	•	
/LRTNCD /LWRITE	HMASMFVL HMASMFVL	DRWC											
XFARRY1	HMASMFXF	D											
KFHEAD KFINIT	HMASMFXF HMASMFXF	DR											
XFRTNCD	HMASMFXF	DRWC											
XFRTYPE XFSMDBY	HMASMFXF HMASMFXF	DŘ											
XFTBL1 XFWRITE	HMASMFXF HMASMFXF	D R											
XFXREF	HMASMFXF												
XOUTMAP 1BCKEY ð	HMASMFXF HMASMTPA	D W	P	1									
1BCMP	HMASMTPA	D MC											
1BENTP 1BFLAGS	HMASMTPA HMASMTPA		P	•									
1BL1END	HMASMTPA	D MC											
1BRC 1BSKIP	HMASMTPA HMASMTPA												
IBUILD 1PTR	HMASMTPA HMASMALC	DR											
2BCKEYD	HMASMTPA	D W	P)									
2BCMP 2BENTP	HMASMTPA HMASMTPA	D WC	P	1									
2BFLAGS	HMASMTPA	D W	•										
2BGET 2BL2END	HMASMTPA HMASMTPA												
2BRC	HMASMTPA	DRWC	_										
2BSCL 2BSKIP	HMASMTPA HMASMTPA	DRM	•	•									
2BUILD	HMASMTPA	DR											
SCP SNUL	HMASMUC2 HMASMUC2		M										
80P	HMASMUC2	D	M										
SVAL	HMASMUC2 HMASMCMP	D DR	М	HMASMCOM	DRW		HMASMLCC	DRW					
BL	HMASMUXC	D											
ENTYPE	HMASMAR2 HMASMIO	DR		HMASMTBL	D 0	. p							
ETADDR	HMASMIO HMASMTPR	DR	M										
ETCDS ETCSRNM	HMASMTP2												
ETDS ETEOD	HMASMTSB HMASMIO	DR DR											
ETFIRST	HMASMTP2	D MC											
ETFLGS ETFMID	HMASMTP2 HMASMTP2	D WC											
ETINDX	HMASMTMD	DRW	F	•									
ETIOPO	HMASMTP2 HMASMTMD		F	,									
ETMAIN	HMASMASM HMASMRDS	R		HMASMDRV HMASMSTA	R		HMASMDSU HMASMSUB	R R		HMASMGTA HMASMTBL	R R	HMASMIO HMASMUPD	R
ETMIDS	HMASMTMS	DR		HINASHSTA	•		MINASINSOB	•		masmist		MINGHOPE	•
ETMOD ETMPTFX	HMASMTRM HMASMTRM												
ETMRC	HMASMTRM	DRWC											
ETMSUBX ETM1PRC	HMASMTRM HMASMTRM												
ETNLSMD	HMASMTPA	DR											
ETNRC ETNSTOP	HMASMEIS HMASMGTA			HMASMGTA	DRW								
ETNSW	HMASMEIS	D W											
ETPAGRC ETPARMS	HMASMGTA HMASMTP2												
ETPRC	HMASMGTA HMASMTMW	DRWC											
ETPTS ETREQ	HMASMTP2	DR											
ETREQNM ETRETRN	HMASMTP2 HMASMTP2	D W	•										
ETRTNCD	HMASMCRD	DRW	_	HMASMDSU	DRWC	;	HMASMRDS	DRWC					
ETSIOP ETSMD	HMASMTPA HMASMTPA	DR DR	P										
ETSMDRC	HMASMTPA	DRW	_										
ETSMRC Etsmtyp	HMASMRCD HMASMTMD	D C	P)									
ETSSMD	HMASMTPA HMASMRCD		P	1									
ETSYSM ET s ysmd	HMASMTMD	DR											
ETSYSPO ETWRK	HMASMTMD HMASMTMW												
K	HMASMDRV	D	_	UMA6455		_							
LMGIOP M	HMASMTPL HMASMIO		M	HMASMTPR		P							
MADDR	HMASMDSU	DRW	M	HMASMRDS	DRW	M	HMASMSTA	DRW M		HMASMSUB	DRW M		
MBFRPT R MDON E	HMASMRDS HMASMBUE												
MDSID	HMASMRDS	D WC											
MINIT MIOPRTN	HMASMRDS HMASMSUB	DR											
MNEXT MNINIT	HMASMRDS HMASMRDS	DRWC											
MPINIT	HMASMRDS	DR											
MPREV	HMASMRDS HMASMBUE												

MBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCES
RDSSW	HMASMRDS HMASMSUB	D								
LFLAGS	HMASMTPA	DW								
LLIST# LPOSIT	HMASMTPA HMASMTPA	D WC								
LPREVO	HMASMTPA	DRWC P								
LRC	HMASMTPA HMASMTPA									
LSKIP1	HMASMTPA	D WC								
CODE	HMASMCPL HMASMTPA		HMASMREC	DR C						
NOGO	HMASMCPL	D C P						_		
OD	HMASMAAR HMASMSCN	DR DR	HMASMCPI HMASMUPI		HMASMDLE HMASMZAP		HMASMLKD	В	HMASMLKI	DR
ODEXIT ODSCAN	HMASMIO HMASMMPE	DR	HMASMUPD HMASMMPI							
ODSCN1	HMASMMPH	ŘM	HIMSHIPT	UR	HMASMMPV	UK				
TCORE TLMOD1	HMASMTBL HMASMTCL		HMASMTCL	D						
SENT	HMASMRCC	W	HMASMREC	W						
SKEY Srec	HMASMREC HMASMRCC	R R	HMASMREC	DP						
STYPE	HMASMRCC	W	HMASMREC	ŭ^wc						
AIFOPT AIRQX	HMASMTPA HMASMTPA	D W P								
APREX	HMASMTPA	DRW								
APTFX APTR	HMASMTPA HMASMTPA	DRW DRW								
ARC .	HMASMTPA									
AREQX ASOFFS	HMASMTPA HMASMTPA									
ASTAT Felem	HMASMTPA HMASMRCD	DRW P	HMASMREC	W						
FELTY	HMASMRCD	°с	HMASMREC	ũ						
FFLGS FFLUSH	HMASMREC HMASMRCD	W _C	HMASMRCF	W						
FFSEQ	HMASMRCD	RĈ	HMASMREC	ũ						
FKEY	HMASMREC HMASMRCD	R								
FREC	HMASMRCD	R M	HMASMRCF	R.	HMASMREC	DR				
FRELF Frelf#	HMASMRCD HMASMRCD	R P	HMASMREC HMASMREC	W						
FSM#	HMASMRCD	RC P	HMASMRCF	С	HMASMREC	W				
FSTY Dup	HMASMRCD HMASMTPR	DP P	HMASMREC	W						
DUPADD	HMASMTPA	DR								
DUPCHK PADD	HMASMTPD HMASMTPR	DR D WC								
PFLAGS	HMASMTPR	D W								
PIRQI PK	HMASMTPR HMASMDRV	D								
PPTFX PRC	HMASMTPR HMASMTPR	DRWC								
PREQI	HMASMTPR	D P								
PSAV	HMASMDRV HMASMTPR	DR M								
PX2	HMASMTPR	DRWC								
MBKUP MEXCL	HMASMREC HMASMRCF	DRW	HMASMRCL	С	HMASMREC	WC				
MFMID	HMASMREC HMASMRCF	W								
MHPRT Mkey	HMASMRCD	C M	HMASMREC HMASMREC	R MC						
MLERR MNAVER	HMASMRCD HMASMRCF	MČ	HMASMRCL	C	UMACHREC	1.0				
MNFND	HMASMRCL	C	HMASMRCL HMASMREC	W	HMASMREC	M				
MRCVD MRDUP	HMASMRCF HMASMRCF	C	HMASMRCL HMASMREC	w ^C	HMASMREC	MC				
MREC	HMASMRCC	R	HMASMRCD	R M	HMASMRCF	R	HMASMRCL	R	HMASMREC	DRW
MRECVD MRLFL	HMASMRCC HMASMRCD	MC M	HMASMRCD HMASMRCL	w _C	HMASMRCF	W	HMASMRCL	С	HMASMREC	С
1RLFP	HMASMRCC	С	HMASMRCD	Ċ	HMASMRCL	С	HMASMREC	W		
15# 15El	HMASMRCD HMASMRCF	RW _C	HMASMRCF HMASMREC	R C WC	HMASMRCL	R	HMASMREC	RWC		
1SIOE	HMASMRCC	W	HMASMRCL	Ċ	HMASMREC	W_				
1STY 1SYNTX	HMASMRCC HMASMRCC	W C	HMASMRCD HMASMRCF	w _C	HMASMRCL HMASMRCL	C	HMASMREC HMASMREC	WC WC		
1USR	HMASMRCF	C	HMASMRCL		HMASMREC	W				
REMID RKEY	HMASMREC HMASMREC	R R								
PREC	HMASMREC									
SREL	HMASMREC HMASMCCA	_ R								
CMPRS	HMASMGTA HMASMGTA									
DEL	HMASMGTA	DR								
ENTRY	HMASMPGC HMASMPGC	D WC								
FREE	HMASMGTA	DR							*	
GETN	HMASMTM4 HMASMGTA	DR								
GETP GTPAG	HMASMGTA HMASMGTA									
INIT	HMASMGTA	DR								
KEYLN	HMASMAR4 HMASMAR1									
LOC	HMASMGTA	DR								
LSTPT	HMASMTCR HMASMGTA	DR								
PS	HMASMREC	DR								
RECRD	HMASMTCR HMASMAR4	DRW								
RF	HMASMREC	DR								
RTNCD	HMASMGTA HMASMAR4	DR C						,		
SM	HMASMREC HMASMREC	DR								
12	HILLOURE	DR								

GMRDSSW - GTASTRT

			SYMB	OL USAGE		
SYMBOL	MODULE	ACCESS	MODULE ACCESS	MODULE ACCESS	MODULE ACCESS	MODULE ACCESS
GTASW GTASYSMD GTAVPDTE GTAVER GTCDSFND GTCFLAGS GTCJ GTCJ GTCZ GTCYFND GTEQ GTLEV	HMASMTCA HMASMTCA HMASMTSA HMASMTSB HMASMTSB HMASMTSB HMASMTSB HMASMTSB HMASMTSB HMASMTSB HMASMTCM	DDR WMM	HMASMLOG C			
GTLEV1 GTLEV2 GTLEV3	HMASMTMD HMASMTMD HMASMTMD	DW				
GTP GTPADD	HMASMEIS HMASMARI HMASMLCC HMASMTCD HMASMTDI HMASMTPA HMASMUC3	M M	HMASMARZ R HMASMDRV R HMASMLID R HMASMRCF R HMASMTM1 R HMASMTM1 R HMASMTPC R	HMASMAR3 R HMASMEIS R HMASMIKD R HMASMREC R HMASMTM2 R HMASMTPL R	HMASMAR4 R HMASMGTA C HMASMPGC R HMASMREJ R HMASMTM3 R HMASMTPR R	HMASMBUR R HMASMGTP D HMASMTCC R HMASMTCR R HMASMTM4 R HMASMTRM R
GTPARRAY GTPBUFAD	HMASMOLE HMASMAR1 HMASMFXF HMASMFCC HMASMREC HMASMTL1 HMASMTL2 HMASMTP2	2 23 Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	HMASMEIS R HMASMAR2 W HMASMOTA R HMASMGTA R HMASMTA R HMASMTA R HMASMTA W HMASMTA R HMASMTA R HMASMTA R	HMASMAR3 W HMASMLCC W HMASMICC W HMASMICC R HMASMITH R HMASMITH R HMASMITH R HMASMITH R HMASMITH R HMASMITH R	HMASMAR4 W HMASMARV W HMASMIID W HMASMRCF R HMASMTCF W HMASMTM2 W HMASMTM2 W HMASMTM2 R HMASMTPL R	HMASMBUR W HMASMEIS W HMASMIKD W HMASMRCL R HMASMTD1 W HMASMTD1 W HMASMTD3 W HMASMTPR R
GTPDEL GTPDSECT	HMASMEIS HMASMBVF HMASMRCC HMASMTPA HMASMTPA HMASMTPA HMASMTPA	R R R R	HMASMGTA C HMASMCRW R HMASMGTP C HMASMRCD R HMASMTBL R HMASMTBL R HMASMTBL R HMASMTFC R	HMASMGTP D HMASMDC2 R HMASMLCC R HMASMTCF R HMASMTCL R HMASMTCL R HMASMTM2 R HMASMTPL R	HMASMDRV R HMASMLID R HMASMTD1 R HMASMTD1 R HMASMTM3 R HMASMTPR R	HMASMDSU R HMASMLKD R HMASMREC R HMASMTI R HMASMTH4 R HMASMTP2 R
GTPEOF	HMASMAR1 HMASMGTA HMASMRCD HMASMTD1 HMASMTPR	R C	HMASMAR2 C HMASMGTP D HMASMRCL C HMASMTLL C HMASMTLL C	HMASMAR4 C HMASMLCC C HMASMREC C HMASMTM4 C HMASMTRM C	HMASMCRW R C HMASMLID C HMASMREJ C HMASMTPA R C	HMASMEIS C HMASMPGC C HMASMTCR C HMASMTPL C
GTPFREE	HMASMAR1 HMASMEIS HMASMLKD HMASMTCR	R R R	HMASMAR2 R HMASMGTA C HMASMPGC R HMASMTM2 R	HMASMAR3 R HMASMGTP D HMASMREC R HMASMTM3 R	HMASMAR4 R HMASMLCC R HMASMREJ R HMASMTRM R	HMASMDRV R HMASMLID R HMASMTCL R
GTPFUNCT	HMASMARI HMASMCRW HMASMGTA HMASMRCC HMASMTEJ HMASMTMJ HMASMTPA	EEEEOEE	HMASMARZ W HMASMLE W HMASMLCC W HMASMRCD W HMASMTCL W HMASMTMI W HMASMTPC W	HMASMAR3 W HMASMDRV W HMASMLID W HMASMRCF W HMASMTCR W HMASMTCR W HMASMTCR W HMASMTPL W	HMASMAR4 W HMASMEIS W HMASMIKD W HMASMRCL W HMASMTD1 W HMASMTM3 W HMASMTPR W	HMASMBUR W HMASMFXF W HMASMREC W HMASMREC W HMASMTL1 W HMASMTM4 W HMASMTP2 W
GTPGETN	HMASMTRM HMASMAR1 HMASMLCE HMASMLCCF HMASMTD1 HMASMTPR	R R R R	HMASMUC3 W HMASMAR2 R HMASMEIS R HMASMLID R HMASMTLID R HMASMTLI R HMASMTP2 R	HMASMXRF W HMASMAR3 R HMASMFXF R HMASMFKD R HMASMTKD R HMASMTM4 R HMASMTM4 R	HMASMAR4 R HMASMGTA C HMASMPGC R HMASMREJ R HMASMTPA R HMASMUC3 R	HMASMCRW R HMASMGTP D HMASMFCD R M HMASMTCR R HMASMTPL R
GTPGOOD GTPIOERR	HMASMGTA HMASMAR3 HMASMEIS HMASMIKD HMASMTM4 HMASMUC3	ooo	HMASMGTP D HMASMBUR R HMASMFXF CHMASMFGC C HMASMTPA C HMASMXRF C	HMASMCRW R C HMASMGTA R C HMASMRCC C HMASMTD1 C HMASMTPR C	HMASMDLE C HMASMGTP D HMASMRCD C HMASMTL1 C HMASMTP2 C	HMASMDRV C HMASMLCC R C HMASMRCF C HMASMTMJ C HMASMTRM C
GTPKEYLN	HMASMGTA HMASMARI HMASMGTA HMASMREC HMASMTLI HMASMTPA	33 C 33 R	HMASMGTP D HMASMAR2 W HMASMDLE W HMASMLCC W HMASMTPJ W HMASMTRM W	HMASMAR3 W HMASMDRV W HMASMLID W HMASMTBL W HMASMTM2 W HMASMTM2 W	HMASMAR4 W HMASMEIS W HMASMIKD W HMASMTCR W HMASMTM3 W HMASMTM5 W	HMASMBUR W HMASMFXF W HMASMPGC W HMASMTD1 W HMASMTM4 W
GTPLOC	HMASMAR3 HMASMGTP HMASMTL1 HMASMTRM	D R R	HMASMCRW R HMASMLKD R HMASMTMJ R HMASMUC3 R	HMASMEIS R HMASMRCD M HMASMTPA R HMASMXRF R	HMASMFXF R HMASMREC R HMASMTPL R	HMASMGTA C HMASMREJ R HMASMTPR R
GTPNOARY GTPNODCT GTPNOSPM	HMASMGTP HMASMGTP HMASMEIS		HMASMGTA C			
GTPNTFND	HMASMEIS HMASMTPA	R C	HMASMGTA R C HMASMTPL C	HMASMGTP D HMASMTPR R C	HMASMLKD C	HMASMRCD C
GTPOPENN	HMASMARI HMASMGTA HMASMPGC HMASMREJ HMASMTPL HMASMGTA	R RRR	HMASMAR2 R HMASMGTP D HMASMRCD R HMASMTCR R HMASMTPR R HMASMGTP D	HMASMAR4 R HMASMLCC R HMASMRCF R HMASMTD1 R HMASMTP2 R	HMASMDLE R HMASMID R HMASMRCL R HMASMTM4 R HMASMUC3 R	HMASMEIS R HMASMLKD R HMASMREC R HMASMTPA R
GTPPS GTPPSIZE	HMASMREC HMASMAR1	W	HMASMDRV W	HMASMGTA C	HMASMLKD W	HMASMPGC W
GTPPTR	HMASMTBL HMASMBUR HMASMXRF	W DRW DRW	HMASMTM2 W HMASMDRV DRW	HMASMTM3 W HMASMFXF DRW	HMASMUC3 W HMASMLKD DRW	HMASMTMJ DRW
GTPPTR1 GTPRCDLN	HMASMICC HMASMARI HMASMCRW HMASMGTA HMASMTCD HMASMTDI HMASMTRM		HMASMLID DRW HMASMAR2 W HMASMLCC W HMASMLCC W HMASMLCC W HMASMLCO W HMASMLCO W HMASMLCO W HMASMLCO W	HMASMAR3 W HMASMDRV W HMASMIID W HMASMREJ W HMASMTM2 W HMASMXRF W	HMASMAR4 W HMASMEIS W HMASMIKD W HMASMTBL W HMASMTBL W	HMASMBUR W HMASMFXF W HMASMPGC W HMASMTCR W HMASMTM4 W
GTPRCDNF GTPRESTR GTPRETRN D=DEFINIT	HMASMEIS HMASMAR3 HMASMAR1	RW R	HMASMGTA W HMASMGTA RW HMASMAR2 R	HMASMRCD RW HMASMAR3 R C	HMASMAR4 R MACRO, A=ABSOLUTE,	HMASMBUR R P=PARAMETER

SYMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
STPRETRN	HMASMCRW HMASMGTA	WC W	HMASMDLE HMASMLCC	R C R C	HMASMDRV HMASMLID	R C R C	HMASMEIS HMASMLKD	RWC R C	HMASMFXF HMASMPGC	R C
	HMASMRCC	RC	HMASMRCD	С	HMASMRCF	C	HMASMRCL	С	HMASMREC	RC
	HMASMREJ HMASMTMJ	R C	HMASMTCL HMASMTM1	R	HMASMTCR HMASMTM2	R C	HMASMTD1 HMASMTM3	R	HMASMTL1 HMASMTM4	R C
	HMASMTPA HMASMTRM	R C R C	HMASMTPC HMASMUC3	R C	HMASMTPL HMASMX RF	R C R C	HMASMTPR	R C	HMASMTP2	R C
TPRF TPSM	HMASMREC HMASMREC	DR DR								
TPSPACE TPSR	HMASMGTA HMASMREC	R C DR	HMASMGTP	D	HMASMLCC	С	HMASMREC	С		
TPSTRTN	HMASMAR3 HMASMRCD	Ř	HMASMCRW HMASMTL1	R R	HMASMFXF HMASMTPA	R	HMASMGTA HMASMTRM	R C	HMASMGTP	D
STESTETE	HMASMGTA	C	HMASMGTP HMASMAR 2		HMASMAR3	, MC	HMASMAR4	"MC	HMASMGTA	RWC
STPWKAD	HMASMAR1 HMASMPGC	H ₂	HMASMREC	С			HIASHAK T		MASMOTA	****
TP1K TP2K	HMASMGTA HMASMGTA	CCC	HMASMGTP HMASMGTP	B	HMASMUC3	R				
TP4K TP512B	HMASMGTA HMASMAR1	R	HMASMGTP HMASMDRV	R	HMASMGTA	С	HMASMGTP		HMASMLKD	R
ı	HMASMPGC HMASMCOM	R DRW	HMASMTBL HMASMUC2	R R	HMASMTM2	R	HMASMTM3	R		
DAPAR	HMASMF PT HMASML CD	D W								
DCDSIDV	HMASMLCD HMASMFPT	D W								
IDCLN2	HMASMFPT HMASMFPT	ĎW	HMASMFXF	n	HMASMLCD	DBM	HMASMLCP	nш		
IDDATA IDDAY	HMASMFPT	DRW	HIMSHIFAF	J	HIMASITECE	D	HMASHECP			
IDDEL IDDEL b y	HMASMFPT HMASMFPT	D W								
IDDIRH IDDIRV	HMASML CP HMASML CP	D W DRW								
DDSID IDDSPFX	HMASMLCD HMASMFPT	D W	HMASMLCP	D W						
DEQ	HMASMFPT HMASMFPT	DW	HMASMFVL HMASMLCD	DW	HMASMFXF	D W	HMASML CD	D W	HMASMLCP	D W
IDFUNC	HMASMFPT HMASMFPT	D W		-						
DHH DH1DSID	HMASMFPT	ĎŴ								
IDH1OPT IDH1SMD	HMASMFPT HMASMFPT	D W								
IDINDX Idinsert	HMASMFPT HMASMAR1	DRW DR	HMASMLCD HMASMAR2		HMASMLCP	DRW				
ID JC L ID L SUP	HMASMF PT HMASMF PT	D W								
IDMCDSTH	HMASML CD HMASML CD	DW								
IDMCS	HMASMLCP HMASMLCD	W W								
IDMCSYSH IDMCSYSV	HMASMLCD	D W			•					
HDMDDSTH	HMASMLCD HMASMLCD	D W								
IDMM IDMTSSVH		D W								
IDMTSSVV Idname	HMASMLCD HMASMFPT	D W	HMASMFVL	D	HMASMFXF	D	HMASMLCD	D W	HMASMLCP	D W
HDNUCIDH	HMASML CD HMASML CD	D W								
IDOUTMAP IDPAGLNH	HMASMLCD HMASMLCP	D W	HMASMLCP	D						
IDPAGL NV	HMASMLCP HMASMLCD	DRW DW	HMASMLCP	D W						
DPEMAXV	HMASMLCD HMASMFPT	DRW DW	HMASMLCP							
DPGMNM DPGMPM	HMASMLCP HMASMLCP	ğü								
DPGMRC	HMASMLCP HMASMLCP	DRW								
DPGMSP	HMASMLCP	B W								
DPGOPT	HMASMLCP HMASMLCP	D W								
IDPRIMV IDPTF	HMASMLCP HMASMFPT	D W								
DPURGEN	HMASMLCP HMASMLCP	D W								
DRACRQ	HMASMLCC HMASMLCC	DR DR								
DREJH	HMASMLCP HMASMLCP	D W								
DRMID	HMASMLCD	D								
DRMOD DRPROC	HMASMZAP HMASMREC	D.W.								
DRPTF	HMASMZAP HMASMZAP	D.W								
DR1 DSECH	HMASML OG HMASML CP	D W								
DSECV DSMDACC	HMASMLCP HMASMFXF	DRW DW								
DSMDAPP DSMDBYP	HMASMFXF HMASMFXF	D W								
DSMDERR DSMDHDD	HMASMFXF HMASMFXF	D W DRW								
DSMDHDT	HMASMFXF HMASMFXF	D WC								
DSMDHMP DSMDHNM	HMASMFXF	W W								
DSMDHPR	HMASMFXF	DW								
DSMDHST	HMASMFXF HMASMFXF	Βw								
DSMDHYY DSMDRES	HMASMFXF HMASMFXF	D W								
DSMDRGN DSRDSTH	HMASMFXF HMASMLCD	DW								
IDSRDSTV IDSRELH	HMASMLCD HMASMLCD	E E 1					•			
DSPELV	HMASMLCD									

GTPRETRN - HDSRELV

					SY	MBO	L USAGE								
SYMBOL	MODULE	ACCES	s	MODULE	ACCES	s	MODULE	ACCESS	_	MODULE	ACCESS	_	MODULE	ACCES	:s
HDSRSYSH	HMASMLCD	DW				_									
HDSRSYSV HDSS	HMASMLCD HMASMFPT	D W													
HDSTAT HDSTSSVH HDSTSSVV	HMASMEPT HMASMLCD HMASMLCD	W W W													
HÖSUBHD HDSUP HDTYPE	HMASMFPT HMASMFPT HMASMLCD	000 EEE		HMASMFVL HMASMLCP			HMASMFXF	D W		HMASMLCD	D W		HMASMLCP	DW	
HDUPDSMD HDUPDTYP	HMASMLCD HMASMLCD	200		HMASHECP	D W										
HDUSER HDVDATA HDVERNM	HMASMFPT HMASMLCD HMASMFVL	W W W		HMASMLCP	D										
HDVLINE HDVPFX	HMASMFVL HMASMFVL	D DR		HMASMLCD			HMASMLCP	D							
HDVSDATA HDVSLIST HDVSSMD	HMASMFVL HMASMFVL HMASMFXF	D.W.		HMASMFXF HMASMFXF											
HDYEAR HD1	HMASMFPT HMASMLOG	D W	м												
HD2 HD3 HD4	HMASMLOG HMASMLOG HMASMLOG		M M M												
HDS HEADADDR	HMASMLOG HMASMIO	DRW	M												
HEADCT HEADPTR	HMASMIO HMASMAR1 HMASMLCD	DRWC DR DR C		HMASMAR2 HMASMLCP			HMASMAR3 HMASMRCL			HMASMAR4	DR		HMASMFPT	DR C	
HEADRC HEADSAV	HMASMAR1 HMASMEPT	DRWC DRW		HMASMAR2	DRWC		HMASMARS			HMASMAR4	DRWC		HMASMRCL	DRWC	
HEADSET HEADSTRT HEXCODE	HMASMLOG HMASMIO HMASMALC	DR DR D W													
HEXCOL	HMASMUC1 HMASMMPD	DRW		HMASMUC3 HMASMMPE			HMASMUC4 HMASMMPH			HMASMMPI	DRW		HMASMMPV	DRW	
HEXTAB HEXZERO	HMASMUPI HMASMSER HMASMTDD	DRWC DR D C													
HEXO	HMASMFPT HMASMUC1	DR DR		HMASMFVL	DR		HMASMFXF	DR		HMASMLCD	DR		HMASMLCP	DR	
HEX1 HEX2 HEX8F	HMASMSCN HMASMSCN HMASMPDS														
HH Highaar	HMASMIO HMASMAAR	D W DRWC													
HIGHCIL HIGHDLE HIGHLIM	HMASMCIL HMASMDLE HMASMASM	DRWC DRW D													
HIGHMID Highrcc	HMASMAAR HMASMRCC	DRWC DRWC													
HIGHRCF HIGHTCR HIGHTDD	HMASMRCF HMASMTCR HMASMTDD	DRW DRWC DRW													
HIGHTD1 Hightmd	HMASMTD1 HMASMTMD	DRWC DRWC	P												
HIGHTMS HIGHTMW HIGHTPD	HMASMTMS HMASMTMW HMASMTPD	DRWC DRWC DRWC													
HIGHUPI HIGHZAP	HMASMUPI HMASMZAP	DRW DRWC													
HILIMGP HISTDCB HISTENT	HMASMMSG HMASMIO HMASMIO	DR													
HISTPRTN Hit	HMASMIO HMASMAR3			HMASMIDU											
HITIMENO HLDSDEAD HMAASMR	HMASMDC1 HMASMIO HMASMASM	D D D R		HMASMMSG	С										
HMACPYR HMASMAAR HMASMALC	HMASMCPY HMASMAAR HMASMALC	DR DR DR		HMASMDRV	R										
HMASMARL HMASMARL	HMASMARL HMASMARL	DR R		HMASMDRV HMASMAR1	R DR		HMASMSER	R							
HMASMAR2 HMASMAR3 HMASMAR4	HMASMARL HMASMARL HMASMARL	R R R		HMASMAR2 HMASMAR3 HMASMAR4	DR										
HMASMASI HMASMASM	HMASMASI HMASMASM	DR DR		HMASMCMP HMASMUPD	D R										
HMASMBOL HMASMBUE	HMASMBDL HMASMASM HMASMUPD	DR R		HMASMCOM HMASMBUE	R DR		HMASMDSU HMASMCPY	R R		HMASMDLE	R		HMASMLKD	R	
HMASMBUR HMASMCCA	HMASMBUR HMASMDRV	DŘ RW		HMASMCPL HMASMIO	R R		HMASMTMJ HMASMSUB	R R		HMASMTSB	R		HMASMUXC	R	
HMASMCIL HMASMCMP HMASMCOM	HMASMAIL HMASMAAR HMASMAAR	DR R P		HMASMLKI HMASMCMP HMASMCOM			HMASMREJ	R							
HMASMCPI HMASMCPL	HMASMAAR HMASMAAR	Ř R		HMASMCPI HMASMCIL	DR R		HMASMCMP	R		HMASMCOM	R		HMASMCPI	R	
HMASMCPY	HMASMCPL HMASMZAP HMASMCPY	DR DR DR		HMASMULE	R P		HMASMLKI	R		HMASMSER	R		HMASMUPI	R	
HMASMCP 2 HMASMCRD	HMASMÉPL HMASMASM	R		HMASMCP2 HMASMCPY	DŘ Ř		HMASMCRD	DR		HMASMDRV	R		HMASMLCP	Ŗ	
	HMASMLKD HMASMTPC HMASMUPD	R R R		HMASMREC HMASMUC1	R R		HMASMTMD HMASMUC2	R R		HMASMTMJ HMASMUC3	R R		HMASMTMW HMASMUC4	R R	
HMASMCRP	HMASMASM HMASMLCP HMASMMPI	RW	P	HMASMCPY HMASMLKD HMASMMPV	D	P	HMASMCRD HMASMMPD	R	P	HMASMCRP HMASMMPE	R	P	HMASMDRV HMASMMPH	RW R	P
	HMASMTMW HMASMUC3	rt .	P	HMASMTPC HMASMUC4	ŘW	P	HMASMREC HMASMUCD HMASMUPD		P P	HMASMTMD HMASMUC1	RW	P	HMASMTMJ HMASMUC2	RW	P
HMASMCRW HMASMDC1 HMASMDC2	HMASMCPL HMASMDC1 HMASMDC2	R DR DR		HMASMCRW HMASMDSU	DR R		-								
HMASMDLE HMASMDRV	HMASMAAR HMASMARV	R		HMASMDLE											
	ION, RERE	AD, WE	WRI	TE, C=COM	PARE,	E=E	QUATE OPE	RAND, M=	MA	CRO, A=A	SOLUTE,	ij	P=PARAMETE	: R	••

HDSRSYSH - HMASMDRV

							L USAGE								
SYMBOL	MODULE	ACCESS		MODULE	ACCESS	_	MODULE	ACCESS	-	MODULE	ACCESS	-	MODULE	ACCESS	_
HMASMDR1 HMASMDR2	HMASMDRV HMASMDRV	R R		HMASMDR1 HMASMDR2	DR		HMASMSER	R							
HMASMDSU HMASMDS1 HMASMEIS	HMASMDRV HMASMDSU HMASMEIS			HMASMDSU HMASMDS1 HMASMIO	DR R		HMASMUC1	R		HMASMUC2	R				
HMASMFPT HMASMFVL HMASMFXF	HMASMFPT HMASMFPT HMASMFPT	DR R R		HMASMLCD HMASMFVL HMASMFXF	DR DR		HMASMLCP HMASMLCD HMASMLCD	R R R		HMASMLCP HMASMLID	R R				
HMASMGPF HMASMGTA	HMASMGPF HMASMAR1 HMASMCRW	R R		HMASMAR 2 HMASMD LE	R		HMASMAR3 HMASMDRV	R R		HMASMAR4 HMASMEIS	R R		HMASMBUR HMASMFXF	R	
	HMASMGTA HMASMRCC HMASMREJ	DR R R		HMASMLCC HMASMRCD HMASMTCL	R R		HMASMLID HMASMRCF HMASMTCR	R R		HMASMLKD HMASMRCL HMASMTD1	R R		HMASMPGC HMASMREC HMASMTL1	R R R	
	HMASMTMJ HMASMTPA HMASMTRM	R R R	_	HMASMTPC HMASMUC3	R R R	_	HMASMTM2 HMASMTPL HMASMXRF	R R R	_	HMASMTM3 HMASMTPR	R R	_	HMASMTM4 HMASMTP2	R R	_
HMASMGTP	HMASMAR1 HMASMCPW HMASMFXF	R R	P	HMASMAR2 HMASMDC2 HMASMGTA	DR	P	HMASMAR3 HMASMDLE HMASMLCC	W W R	PPP	HMASMAR4 HMASMDRV HMASMLID	DRW	PP	HMASMBUR HMASMEIS HMASMLKD	R DRW	PP
	HMASMPGC HMASMREC HMASMTD1	DRW DRW	P	HMASMRCC HMASMREJ HMASMTL1	DR R	PP	HMASMRCD HMASMTBL HMASMTMJ	R DRW RW	P	HMASMRCF HMASMTCL HMASMTM1	R R R	PP	HMASMRCL HMASMTCR HMASMTM2	R RM	0000
HMASMICT	HMASMTM3 HMASMTPR HMASMICT	P		HMASMTM4 HMASMTP2 HMASMTBL	R R R	P	HMASMTPA HMASMTRM HMASMTCL	DR R	P	HMASMTPC HMASMUC3 HMASMTL1	R R	P	HMASMTPL HMASMXRF	R RW	P
HMASMIDU HMASMIO	HMASMCPL HMASMAAR HMASMASI	R R R		HMASMIDU HMASMAR1 HMASMASM	DR R R		HMASMAR 2 HMASMBUE	R R		HMASMAR3 HMASMBUR	R R		HMASMAR4 HMASMCIL	R R	
	HMASMCMP HMASMCRD HMASMDR2	R R R		HMASMCRW HMASMDSU	R R R		HMASMCPI HMASMDLE HMASMDS1	R R R		HMASMOPU HMASMDRV HMASMEIS	R R R		HMASMCPY HMASMDR1 HMASMFPT	R R R	
	HMASMFVL HMASMLCD HMASMLKI	R R R		HMASMLCP HMASMLOG	R R R		HMASMIDU HMASMLC1 HMASMMSG	R R R		HMASMIO HMASMLID HMASMPGC	DR R R		HMASMLCC HMASMLKD HMASMRCC	R R R	
	HMASMRCD HMASMREJ HMASMTCR	R R R		HMASMRCF HMASMRJD HMASMTD1	R R R		HMASMRCL HMASMSEC HMASMTL2	R R R		HMASMRDS HMASMSUP HMASMTMD	R R R		HMASMREC HMASMTBL HMASMTMJ	R R R	
	HMASMTMS HMASMTM4 HMASMTP2	R R R		HMASMTMW HMASMTPA HMASMTRM	R R R		HMASMTM1 HMASMTPC HMASMTSB	R R R		HMASMTM2 HMASMTPL HMASMUC1	R R R		HMASMTM3 HMASMTPR HMASMUC2	R R R	
HMASMION	HMASMUC3 HMASMZAP HMASMIO	DR R		HMASMUC4 HMASMION	R DR		HMASMUPD	R		HMASMUPI	R		HMASMXRF	R	
HMASMIOP	HMASMAAR HMASMAR4 HMASMCIL	R DR R	P	HMASMALC HMASMASI HMASMCMP	R	P	HMASMAR1 HMASMASM HMASMCOM	D R R	PP	HMASMAR2 HMASMBUE HMASMCPI	RW	P P	HMASMAR3 HMASMBUR HMASMCPL	D.R.	P
	HMASMCPY HMASMDR1 HMASMFPT	R R R	P P	HMASMDR2 HMASMFVL	D R	PP	HMASMCRW HMASMDSU HMASMFXF	R R	PP	HMASMDLE HMASMDS1 HMASMIDU	D RW	PP	HMASMDRV HMASMEIS HMASMIO	DR	PP
	HMASMION HMASMLCP HMASMLOG	R	P	HMASMIOP HMASMLC1 HMASMMPE	D D R	P	HMASMIO1 HMASMLID HMASMMPH	R R	P	HMASMLCC HMASMLKD HMASMMSG	DRW D	PP	HMASMLCD HMASMLKI HMASMPGC	RW	P
	HMASMRCC HMASMREC HMASMSUP	ŘШ R	Ρ	HMASMPCD HMASMREJ HMASMTBL	R DR	P	HMASMRCF HMASMRJD HMASMTCL	D DR	P	HMASMRCL HMASMSEC HMASMTCR	DR R DR	PP	HMASMRDS HMASMSUB HMASMTD1	R R	P
	HMASMTEC HMASMTMS HMASMTM4	Ŕ	P	HMASMTID HMASMTMW HMASMTPA	DRW	P	HMASMTL2 HMASMTM1 HMASMTPC	R D <u>R</u>	PP	HMASMTMD HMASMTM2 HMASMTPL	DRW R DR	PPP	HMASMTMJ HMASMTM3 HMASMTPO	R R R	P
	HMASMTPR HMASMUC2 HMASMXRF		P	HMASMTP2 HMASMUC3 HMASMZAP	DRW	PP	HMASMTRM HMASMUC4	R	P	HMASMTSB HMASMUPD	D R R	P	HMASMUC1 HMASMUPI		P
HMASMLCC HMASMLCD	HMASMIO HMASMLCC HMASMLCD	DR DR		HMASMIO1 HMASMLID HMASMLID	DR R R										
HMASMLCP HMASMLC1 HMASMLID	HMASMLCP HMASMLC1 HMASMDRV	DR DR R		HMASMLID HMASMLID	R R DR										
HMASMLKD HMASMLKI HMASMLOG	HMASMLKD HMASMAAR HMASMLID	DR R R		HMASMUPD HMASMLKI HMASMLOG	DR DR										
HMASMMCD HMASMMGP	HMASMMCD HMASMAAR HMASMBUE	ũ	P	HMASMALC HMASMBUR	W W	P	HMASMARL HMASMCOM	W	P P P	HMASMASI HMASMCPI	RW W	P P P	HMASMBDL HMASMCPL	M M	PPP
	HMASMDLE HMASMDS1 HMASMLKI	W	P	HMASMDRV HMASMEIS HMASMLOG	333	PP	HMASMDR1 HMASMGTA HMASMMGP	₩ □ .:	P	HMASMDR2 HMASMIDU HMASMMPD	W W	1000	HMASMDSU HMASMIO HMASMMPE	RW W	1000
	HMASMMPH HMASMRCD HMASMSER	ũ	P	HMASMMPI HMASMRCF HMASMSUB	3 3 3	PP	HMASMMPV HMASMRDS HMASMTBL	W W RW	P	HMASMMSG HMASMREC HMASMTCL	RW W	1000	HMASMRCC HMASMREJ HMASMTCR	W	1000
	HMASMTDD HMASMTMS HMASMTPO	พิ	P	HMASMTL1 HMASMTM1 HMASMTRM	RW RW:	PPP	HMASMTL 2 HMASMTM2 HMASMUC1	RW RW:	9 9 9	HMASMTMD HMASMTM3 HMASMUC3	M M	1000	HMASMTMJ HMASMTM4 HMASMUC4	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	P
HMASMMPD HMASMMPE	HMASMUPD HMASMMPD HMASMMPD	DŘ Ř		HMASMUPI HMASMREC HMASMMPE HMASMMPH	R DR	۲	HMASMUXC	R	•	HMASMVLU HMASMTMJ	R	٢	HMASMZAP HMASMTPC	R"	•
HMASMMPH HMASMMPI HMASMMPV	HMASMMPD HMASMMPD HMASMMPD	R R R		HMASMMPI HMASMMPV	DR DR DR		HMASMARL	R		HMASMASI	R		HMASMBDL	R	
HMASMMSG	HMASMAAR HMASMBUE HMASMDLE	X & & &		HMASMALC HMASMBUR HMASMDRV	R R R		HMASMCOM HMASMDR1 HMASMGTA	R R		HMASMCPI HMASMDR2 HMASMIDU	K R R		HMASMCPL HMASMDSU HMASMIO	K R R	
	HMASMDS1 HMASMLKI HMASMMPI	R R R		HMASMEIS HMASMLOG HMASMMPV HMASMPDS	R R		HMASMMPD HMASMMSG HMASMREC	DR DR		HMASMMPE HMASMRCC HMASMREJ	Ř R R		HMASMRCD HMASMRCD	R R R	
	HMASMRCF HMASMSUB HMASMTMJ	R R R		HMASMTCL HMASMTMS HMASMTRM	Ř R R		HMASMTCR HMASMTM1 HMASMUC1	Ř R P		HMASMTL 2 HMASMTM2 HMASMUC3	R R R		HMASMTMD HMASMTM3 HMASMUC4	Ř R R	
HMASMPGC HMASMPMG	HMASMUPD HMASMUPD HMASMCPL HMASMPMG	R R		HMASMUPI HMASMUPI	R		HMASMUXC	Ř		HMASMVLU	Ř		HMASMZAP	DŘ	
HMASMPRL	HMASMARI HMASMCRD HMASMIO	D R		HMASMAR2 HMASMDRV HMASMLCC	R		HMASMAR3 HMASMFPT HMASMLCD	D		HMASMAR4 HMASMFVL HMASMLCP	D D		HMASMCPY HMASMFXF HMASMLID	D RW	
HMASMPRM	HMASMLKD HMASMPRM	<u> </u>		HMASMLOG	D 		HMASMREC	D		HMASMTMD	D 		HMASMZĀP	ĎR 	
D=DEFINIT	TON. PERE	AD. W=WR	IT	E. C=COM	ARE. E	=E	QUATE OPE	RAND. M	=M/	ACRO, A=A!	BSOLUTE		PEPARAMET	ER	

D=DEFINITION, R=READ, W=WRITE, C=COMPARE, E=EQUATE OPERAND, M=MACRO, A=ABSOLUTE, P=PARAMETER

HMASMDR1 - HMASMPRM

					ZYMI	50	USAGE								
SYMBOL	MODULE	ACCESS		10DUL E	ACCESS	_	MODULE	ACCESS	_	MODULE	ACCESS	_	MODULE	ACCESS	; —
HMASMP01	HMASMP01														
IMASMP02 IMASMP03	HMASMP02 HMASMP03	D													
IMASMP04	HMASMP04	Ď													
MASMP05	HMASMP05 HMASMP06	B													
MASMP07 Masmp08	HMASMP07 HMASMP08	D													
MASMP09	HMASMP09	Ď													
MASMP10 Masmp11	HMASMP10 HMASMP11	6													
MASMP12 Masmp13	HMASMP12 HMASMP13	D													
MASMP14	HMASMP14	Ď													
MASMP15 MASMRCC	HMASMP15 HMASMRCC	DR		MASMREC	R										
MASMRCD Masmrcf	HMASMRCD HMASMRCC	DR R		IMASMREC IMASMRCF	R DR		HMASMREC	R							
MASMRCL	HMASMRCL	DR	н	MASMREC MASMRDP	Ř		HMASMSER	Ř	P						
MASMRDP MASMRDS	HMASMIO HMASMIO	RW R	н	IMASMRDS	ĎR		HMASMRDS		-						
MASMREC MASMREJ	HMASMDRV HMASMDRV	R R		IMASMREC IMASMREJ	DR DR										
MASMRIO	HMASMRIO	D			•										
MASMR JD Masmscn	HMASMCP L HMASMASM	R R		MASMREJ Masmcpy	R R		HMASMR JD HMASMD RV	R		HMASMDSU	R		HMASMLCP	R	
	HMASML KD HMASMMPV	R R		MASMMPD MASMREC	R R		HMASMMPE HMASMSCN	R DR		HMASMMPH HMASMUC1	R		HMASMMPI HMASMUC2	R R	
	HMASMUC3	R	н	MASMUC4	R	_	HMASMUPD	R		HMASMZAP	DR	_			
MASMSCP	HMASMASM HMASMLCP	DRW RW	PH	IMASMCPY IMASMLKD	DRW DRW	P	HMASMCRD HMASMMPD	R R	P	HMASMDRV HMASMMPE	RW R	P	HMASMDSU HMASMMPH	R	
	HMASMMPI HMASMUC2	R	РН	MASMMPV	R	P	HMASMREC HMASMUC4	D W	P	HMASMSCN HMASMUPD	R RW	P	HMASMUC1 HMASMZAP		
MASMSEC	HMASMCMP	R	Ė	MASMCOM	R	-	HMASMCPI	R	_	HMASMCPL	R	_	HMASMDLE	R	
MASMSER	HMASMLKI HMASMSER	R DR		IMASMSEC IMASMSTA	DR R		HMASMTMJ	R		HMASMUPI	R		HMASMZAP	DR	
MASMSET	HMASMD LE HMASMTMJ	R RW	н	MASMORV	RW RW		HMASMLID HMASMTPL	R R		HMASMREC HMASMTPR	RW RW		HMASMREJ HMASMTRM	RM DBM	
	HMASMXRF	ŔW				_			_		R M	_		UKW	
IMASMSPL	HMASMAAR HMASMDRV		PH	MASMBUE	W	P	HMASMBUR HMASMION	W	P	HMASMCIL HMASMLID	W	P	HMASMCPI HMASMRCD		
	HMASMREC	1.1	PH	IMASMRJD	W	P	HMASMSPL	DW	P	HMASMSUB HMASMXRF		P	HMASMTBL	W	
MASMSTA	HMASMTCL HMASMDRV	R	Ė	IMASMTMD IMASMSTA	DR		HMASMTMJ		_			_			
MASMSUB	HMASMAAR HMASMDRV	R R		MASMBUE Masmds1	R R		HMASMBUR HMASMION	R R		HMASMCIL HMASMLID	R R		HMASMCPI HMASMRCD	R R	
	HMASMREC	R	н	MASMRJD	R		HMASMSUB			HMASMTBL	R		HMASMTCL	Ř	
MASMSUP	HMASMTMJ HMASMCPL	Ř	н	MASMXRF Masmsup	DŘ										
IMASMTAD	HMASMTAD HMASMTPC	DR		MASMTD1	R R		HMASMTL1 HMASMTRM	R R		HMASMTMD	R		HMASMTM4	R	
MASMTAI	HMASMTAI	DR	н	MASMTD1	R		HMASMTEC	R		HMASMTID	R		HMASMTL1	R	
	HMASMTL3 HMASMTM4	R R		MASMTMD	R R		HMASMTM1 HMASMTRM	R R		HMASMTM2	R		HMASMTM3	R	
MASMTBD	HMASMARL HMASMORV	R	н	MASMTBL	R DR		HMASMTPR	R							
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HMAZP040 - HMA270I

					SY	мво	L USAGE							
SYMBOL	MODULE	ACCESS	MODULE	AC	CES	S	MODULE	ACCE	SS	MODULE	ACCESS	MODULE	ACCE	SS
	-													
HMA271I HMA272I	HMASMDC1 HMASMDC1	D												
HMA273I HMA274I	HMASMDC1 HMASMCOM	D	HMASMRCC HMASMDC1	В	С	P	HMASMREC HMASMIO	D R	P	HMASMUPD	DR			
HMA275I HMA276I	HMASMDC1 HMASMDC1	D	HMASMUC1				HMASMUC 2		M					
HMA277I HMA278IX	HMASMDC1 HMASMDC1		HMASMUC1	DR			HMASMUC2		М	HMASMUC3	DR			
HMA279IX HMA280IX	HMASMDC1 HMASMDC1	D												
HMA281I HMA282I	HMASMDC1 HMASMDC1	D D DR	HMASMMPE HMASMEIS HMASMDC1	DR			HMASMDR1	D.B.		HMASMIO	DR	HMASMTDD	D	м
HMA283I HMA284I	HMASMCOM HMASMTL2 HMASMDC1	DR	HMASMZAP				HIMSHORI	.		MILASITE	U.,		•	
HMA2851 HMA2861X	HMASMCOM HMASMDC1		HMASMDC1	Ď.										
HMA2871 HMA2881	HMASMDC1 HMASMDC1	Ď D	HMASMDRV HMASMUPD	DR DR										
HMA289I HMA290IX	HMASMDC1 HMASMDC1	D												
HMA2911 HMA2921	HMASMDC1 HMASMDC1	D	HMASMREC	D		P								
HMA293IX HMA294IX	HMASMDC1 HMASMDC1	D												
HMA295IX HMA296I HMA297IX	HMASMDC1 HMASMDC1	D												
HMA298IX HMA299IX	HMASMDC1 HMASMDC1 HMASMDC1													
HMA300IX HMA301IX	HMASMDC1 HMASMDC1	D D												
HMA3021 HMA3031	HMASMCPL HMASMCOM	DR DR	HMASMDC1 HMASMDC1	B			HMASMTCR	DR		LMTMSAMH	DR	HMASMTSB	D	M
HMA304I HMA305I	HMASMCOM HMASMDC1	D R	HMASMDC1 HMASMDR1	DR			HMASMEIS	DR						
HMA306IX HMA307IX	HMASMDC1 HMASMDC1	D												
HMA308I HMA309I	HMASMDC1 HMASMDC1		HMASMDRV HMASMDRV											
HMA310I HMA311I	HMASMDC1 HMASMDC1	D												
HMA312IX HMA313I	HMASMDC1 HMASMDC1	D												
HMA314IX HMA315I	HMASMDC1 HMASMDC1	D D												
HMA316I HMA317I	HMASMDC1 HMASMDC1 HMASMDC1	Ď												
HMA318I HMA319I HMA320I	HMASMDC1 HMASMDC1	D	HMASMTMS	D	С	P								
HMA3211 HMA3221	HMASMDC1 HMASMDC1	D												
HMA3231 HMA3241	HMASMDC1 HMASMDC1	D	HMASMIDU	DR										
HMA325I HMA326IX	HMASMDC1 HMASMDC1	D D												
HMA327I HMA328I	HMASMDC1 HMASMDC1	D	HMASMREC	D		P								
HMA329IX HMA330IX	HMASMDC1 HMASMDC1	D												
HMA331IX HMA332IX	HMASMDC1 HMASMDC1 HMASMDC1	D												
HMA333IX HMA334IX HMA335IX	HMASMDC1 HMASMDC1	000												
HMA336IX HMA337IX	HMASMDC1 HMASMDC1	D												
HMA3381 HMA3391	HMASMDC1 HMASMDC1	D	HMASMMPE HMASMMPE	DR										
HMA340I HMA341I	HMASMDC1 HMASMDC1	D	HMASMMPE HMASMDRV	DR			HMASMMPE	DR		HMASMUC1	DR			
HMA342I HMA343I	HMASMDC1 HMASMDC1		HMASMMPE HMASMIO	DR										
HMA344IX HMA345I	HMASMDC1 HMASMDC1	Ď	HMASMREC HMASMREC	D		P								
HMA346I HMA347I	HMASMDC1 HMASMDC1 HMASMDC1	D D D	HMASMREC HMASMREC	00		P								
HMA348I HMA349I HMA350I	HMASMDC1 HMASMDC1	B	HMASMREC HMASMREC	Ď		P								
HMA3511 HMA3521	HMASMDC1 HMASMALC	D DR	HMASMRCD HMASMDC1	_ R	1	м .								
HMA3531 HMA3541	HMASMALC HMASMALC	DR DR	HMASMDC1 HMASMDC1	В										
HMA3551 HMA3561	HMASMDC1 HMASMDC1	D	HMASMTMD HMASMUC1	DR	С	P	HMASMTPC HMASMUC2	D	M	HMASMUC3		HMASMVLU	DR	
HMA357I HMA358I	HMASMDC1 HMASMDC1	D	HMASMUC1 HMASMUC1	DR			HMASMUC2 HMASMUC2		M	HMASMUC3 HMASMUC3	DR	HMASMVLU HMASMVLU		
HMA359I HMA360I	HMASMDC1 HMASMDC1	D	HMASMTCL HMASMDR1	DR			HMASMTCR	DR		HMASMTSB	D M			
HMA361I HMA362I HMA363I	HMASMDC1 HMASMDC1 HMASMDC1	Ď	HMASMDR1 HMASMREC HMASMREC		С	P								
HMA364I HMA365I	HMASMDC1 HMASMDC1	000	HMASMTPA HMASMTPL	00	- 1		HMASMTPL	D						
HMA3661 HMA3671	HMASMDC1 HMASMDC1	Ď	HMASMDS1 HMASMDS1	DR DR										
HMA368I HMA369I	HMASMDC1 HMASMDC1	Ď D	HMASMDR2 HMASMREC	DR	С	P					_		_	
HMA370I	HMASMCPL HMASMTPL	D M	HMASMDC1 HMASMTSB	D	r	М	HMASMTCR	DR		HMASMTDD	D M	HMASMTPA	D	M
HMA3711 HMA3721	HMASMDC1 HMASMDC1	D	HMASMTPA	D		۲ ۲								
HMA373I HMA374I HMA375I	HMASMDC1 HMASMDC1 HMASMDC1	D	HMASMTPA HMASMTMD HMASMTMD	000	e '	P								
						E=E	QUATE OPE	RAND -	M=M	ACRO, A=A	SOLUTE.	PEPARAMET	 ER	
2-021 21421		,			'						 			

SYMBOL	MODULE	ACCESS	MODULE	S'		USAGE MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCES:
HMA376I HMA377I	HMASMCIL HMASMALC		HMASMDC1 HMASMDC1	D	_						
HMA378I HMA379I	HMASMDC1 HMASMDC1	D	HMASMREC HMASMTPA HMASMTPL	D	M M	HMASMTPL	D M				
HMA380I HMA381I HMA382I	HMASMDC1 HMASMDC1 HMASMDC1	D	HMASMTMS	D C	`` P	HMASMTRM	DR				
HMA383I HMA384I	HMASMDC1 HMASMDC1	D	HMASMTPA HMASMTPA	D	M M						
HMA385I HMA386I	HMASMDC1 HMASMDC1	D	HMASMRCF HMASMRCF	R	M M						
HMA387I HMA388I	HMASMDC1 HMASMDC1	D	HMASMRCF		E E E						
HMA389I HMA390I HMA391I	HMASMDC1 HMASMDC1 HMASMDC1	D	HMASMRCF HMASMRCF HMASMRCD	ь	M M						
HMA392I HMA393I	HMASMDC1 HMASMDC1	D	HMASMRCF HMASMRC	R	M	HMASMRCD	м				
MA394I MA395I	HMASMDC1 HMASMDC1	D	HMASMRCD HMASMRCC	R	MP						
1MA396I 1MA397I	HMASMDC1 HMASMDC1	D	HMASMRCF HMASMRCP		M M						
MA398I	HMASMDC1 HMASMDC1	D	HMASMRCF		M						
MA400I MA401I	HMASMDC1 HMASMDC1 HMASMDC1	D	HMASMFCF HMASMTPL HMASMUC1	D	M M						
1MA402I 1MA403I 1MA404I	HMASMDC1 HMASMBUR	D	HMASMDC1								
MA405I	HMASMDC1 HMASMDC1	D	HMASMTMD HMASMREJ	D C	P						
MA407I MA408I	HMASMDC1 HMASMDC1	D D	HMASMRE J HMASMRE J	D DR							
MA409I MA410I	HMASMCPI HMASMDC1	D	HMASMDC1 HMASMTMS	D C	P						
MA411I MA412I MA413I	HMASMBUR HMASMDC1 HMASMDC1	D	HMASMTPO HMASMTPO HMASMTPO	DR							
MA4141 MA415I	HMASMDC1 HMASMDC1	D	HMASMDR1 HMASMTMS	DR	P						
MA416I MA417I	HMASMDC1 HMASMDC1	D		•							
MA418I MA419I	HMASMDC1 HMASMDC1	D	HMASMTM J HMASMTM J	DR							
MA420I MA421I	HMASMDC1 HMASMDC1	D	HMASMTCL								
1MA422I 1MA423I 1MA424I	HMASMDC1 HMASMDC1 HMASMDC1	D	HMASMREJ HMASMLOG HMASMDSU	DR							
HMA4251 HMA4261	HMASMDC1 HMASMDC1	D	HMASMDRV HMASMTPA	DR	м						
MA4271	HMASMDC1 HMASMDC1	D	HMASMTPA HMASMTPR	D	M M						
HMA429I HMA430I	HMASMDC1 HMASMDC1	D	HMASMTRM HMASMTRM	DR	M						
MA4311 MA4321	HMASMDC1 HMASMDC1	D	HMASMTM1 HMASMSER	D R D R		HMASMTM2	DR	EMTMSAMH	DR		
IMA433I IMA434IX IMA435IX	HMASMDC1 HMASMDC1 HMASMDC1	D									
MA436IX MA437IX	HMASMDC1 HMASMDC1	D									
MA438IX MA439IX	HMASMDC1 HMASMDC1	D									
MA440IX MA441IX	HMASMDC1 HMASMDC1	D D									
MA442IX MA443IX	HMASMDC1 HMASMDC1	D									
MA444IX	HMASMDC1 HMASMDC1	D									
MA446IX MA447IX MA448IX	HMASMDC1 HMASMDC1 HMASMDC1										
MA449IX MA450IX	HMASMDC1 HMASMDC1	D									
OLD NUM OLD TYPE	HMASMCPL HMASMLID	D WC									
PAD 2	HMASMLOG HMASMLOG	R R D M									
IWCP IWNUL IWOP	HMASMUC2 HMASMUC2 HMASMUC2	D									
WORD	HMASMAAR HMASMAR4	D	HMASMAL C HMASMAS I	D		HMASMAR1 HMASMASM	D D	HMASMAR2 HMASMBDL	D	HMASMAR:	E D
	HMASMCIL HMASMCRW	D	HMASMCMP HMASMDRV	D D		HMASMCOM HMASMDR1	D	HMASMCPI HMASMDR2	D	HMASMCP)	ם נ
	HMASMDS1 HMASMICT		HMASMFPT HMASMIDU	D		HMASMFVL HMASMIO	D D	HMASMFXF HMASMIOP	D	HMASMGTA HMASMLCO	C D
	HMASMLCD HMASMMPE HMASMRCC	D D	HMASMLID HMASMMPI HMASMRCD	D		HMASMLKD HMASMMPV HMASMRCF	D	HMASMLKI HMASMMSG HMASMRCL	D	HMASMLOC HMASMPGC HMASMRDS	C D
	HMASMREC HMASMSTA	Ď	HMASMRE J HMASMSUB	D		HMASMSCN HMASMSUP	D	HMASMSEC HMASMTAI	D D	HMASMSER HMASMTB (? D
	HMASMTCL HMASMTL3	B	HMASMTEC HMASMTMD	D D		HMASMTID HMASMTMS	D D	HMASMTL1 HMASMTM1	D D	HMASMTL 2 HMASMTM2	2 D
	HMASMTM3 HMASMTPO	D	HMASMTM4	D		HMASMTPA HMASMTPS	D	HMASMTPC HMASMTP2	D	HMASMTPL	1 D
1WVAL	HMASMTSB HMASMUPD HMASMUC 2	D .	HMASMUC1 HMASMUXC	D		HMASMUC2 HMASMVLU	B	HMASMUC3 HMASMXRF	D	HMASMUC4 HMASMZAF	
I	HMASMALC HMASMBUE	DRW DRW	HMASMAR3 HMASMCOM		P	HMASMAR4 HMASMCPI		HMASMASM HMASMCPY	DRWC	HMASMBD L HMASMCP2	DRW
	HMASMDLE HMASMMSG	DRW DRWC	HMASMDRV HMASMPGC	DRWC D W		HMASMIO1 HMASMRCD	DRW DRW	HMASML KD HMASMR EC	D RWC DRWC	HMASMLKI HMASMRJE	DRW DRW
	HMASMSEC	DRW DRWC	HMASMTCR HMASMTR1			HMASMTMD HMASMUC2	DRW	HMASMTM J HMASMUC3	DRW	HMASMTMS HMASMUC	

DEDEFINITION, REREAD, WEWRITE, CECOMPARE, EEEQUATE OPERAND, MEMACRO, ASABSOLUTE, PEPARAMETER

						SYMB	0	LUSAGE										
SYMBOL	MODULE	AC	CESS	-	MODULE	ACCESS		MODULE	ACCESS		MODULE	AC	CESS	_	MODULE	ACCE	s s	
ICHNPTR ICMODPTR ICPTFPTR	HMASMTPD HMASMIDU HMASMTM1	DR DR		P P P	HMASMTM1 HMASMTM2	DR C	P	HMASMTM2 HMASMTM3		P. P	HMASMTM3 HMASMTM4	DR DR	С	ρP	HMASMTM4	DR C		P
ICSBIFC ICT_BASE	HMASMIO HMASMDC2 HMASMTPC HMASMTSB	D R R R			HMASMICT HMASMTPD	R C		HMASMTBL HMASMTPL	P P		HMASMTEC HMASMTPR	R			HMASMTPA HMASMTP2	R R		
ICT_LMOD ICT_MOD ICT_PTF	HMASMTL3 HMASMTL3 HMASMSUP HMASMTPD HMASMTSB	2222			HMASMTSB HMASMTMW HMASMTEC HMASMTPL	R R R		HMASMTSB HMASMTMJ HMASMTPR	RRR		HMASMTPA HMASMTPS	R			HMASMTPC HMASMTP2	R R		
ICTACC ICTALL	HMASMICT HMASMDC2 HMASMTEC HMASMTPC HMASMTP2	R R R R			HMASMDRV HMASMTL3 HMASMTPD HMASMTSB	R R R R		HMASMDSU HMASMTMJ HMASMTPL	RRR		HMASMICT HMASMTMW HMASMTPR	R	С		HMASMSUP HMASMTPA HMASMTPS	R R		
ICTASMAD ICTASMLS ICTASMND ICTBYP ICTCK1 ICTCONSTA	HMASMICT HMASMAR2 HMASMAR2 HMASMICT HMASMCPL	R R R	С		HMASMICT HMASMICT HMASMICT HMASMIRM	R		HMASMTBM HMASMTMD HMASMTBM	R W R		HMASMTMD HMASMTMS HMASMTMD	R	С		HMASMTMS HMASMTMS	R C		P
ICTCOPY ICTCORE ICTCSRF ICTCSRNM	HMASMDRV HMASMTPA HMASMTPS HMASMCOM HMASMICT HMASMICT HMASMICT HMASMICT		С		HMASMSUP HMASMTPC HMASMTP2 HMASMICT HMASMTBL HMASMTPD HMASMTPD	22 23 33 30 00 00 00 00 00 00 00 00 00 00 00		HMASMTEC HMASMTPD HMASMTSB HMASMLKI HMASMTBM	RR C		HMASMTL3 HMASMTPL HMASMTL2	R	W		HMASMTMJ HMASMTPR	R		
ICTCSRST ICTDELEX ICTDELLS ICTDELND ICTDELNM	HMASMAR4 HMASMAR4 HMASMAR4 HMASMAR4 HMASMTP2	D R R	c cc		HMASMICT HMASMCPL HMASMCPL HMASMCPL	R C		HMASMSEC HMASMTD1 HMASMICT HMASMICT	R D D		HMASMTEC HMASMTEC HMASMTD1 HMASMTD1	R R D	C	P	HMASMTP2 HMASMTP2 HMASMTEC	R R R		
ICTDELNT ICTDELST ICTDUMMP ICTENDCH ICTENDIX	HMASMICT HMASMICT HMASMICRV HMASMARV HMASMARI HMASMCP2 HMASMICR HMASMICR	00 888888	С		HMASMICT HMASMICT HMASMAR1 HMASMOMP HMASMOLE HMASMSUP HMASMIDD			HMASMTAI HMASMAR2 HMASMICOM HMASMICT HMASMTBL HMASMTBL	RRR RR.		HMASMTBL HMASMAR3 HMASMCPI HMASMIDU HMASMTBM HMASMTEC	122222	С		HMASMAR4 HMASMCPL HMASMICI HMASMTCL HMASMTL2	RRRRRR		
ICTENDNT	HMASMTIB HMASMTRI HMASMCIL HMASMCIL HMASMCEC HMASMTCR HMASMTCR HMASMTCR HMASMTDR	2222222222	ç		HMASMTMD HMASMTPS HMASMAR1 HMASMCMP HMASMTAD HMASMTAD HMASMTMD HMASMTMD HMASMTMD HMASMTPR	aaaaaaaaaa O		HMASMTMS HMASMTPI HMASMAPRI HMASMACOM HMASMICOL HMASMITDI HMASMTDI HMASMTMJ HMASMTMJ HMASMTMJ HMASMTMJ	R R R R		HMASMTPA HMASMTAP HMASMAR3 HMASMACPI HMASMTBM HMASMTBM HMASMTLI HMASMTMA HMASMTRA HMASMTRA HMASMTRA	***********			HMASMTPD HMASMTRM HMASMAR4 HMASMCPL HMASMTKL HMASMTL2 HMASMTM1 HMASMTPD HMASMTR1	C C		
ICTENTL'S	HMASMTSB HMASMAR3 HMASMTEC HMASMTSB	R R R R	С		HMASMUPI HMASMCPL HMASMTPD	R R R		HMASMZAP HMASMCP2 HMASMTPR	R R		HMASMIDU HMASMTPS	R			HMASMSEC HMASMTR1	R R		
ICTENTND	HMASMAR3 HMASMSEC HMASMTR1	RRR			HMASMCPL HMASMTEC HMASMTSB	R C		HMASMCP2 HMASMTPD	R R		HMASMICT HMASMTPR	D			HMASMIDU HMASMTPS	R		
ICTENTHM ICTENTHT	HMASMAR3 HMASMTEC HMASMICT		С		HMASMCPL HMASMTPD HMASMSEC	R C		HMASMCP2 HMASMTPS HMASMTPR	R C	P	HMASMICT HMASMTR1	D		P	HMASMIDU HMASMTSB	C		
ICTENTRY ICTEREQB ICTEREQB ICTEREQS ICTEREQT ICTEREQT ICTEREOR ICTEREOR ICTEREOR ICTEREOR	HMASMTOT HMASSMCPCT HMASSMCPCT HMASSMCPT HMASSMART HMASSMAKI HMASSMI HMASSMUPI HMASSMUPI	D R R	00 00 0		HMASMTEC HMASMCP2 HMASMCP2 HMASMCP2 HMASMCP2 HMASMCP2 HMASMCIL HMASMCIL HMASMTIL HMASMTM2	EEEE COOOO		HMASMICT HMASMICT HMASMICT HMASMAR4 HMASMTPA HMASMCMP HMASMCDD HMASMTDD HMASMTDD HMASMTM3	D		HMASMTR1 HMASMTR1 HMASMTCR HMASMICT HMASMCPI HMASMTMD HMASMTM4	ı	C		HMASMTR1 HMASMSEC HMASMICT HMASMITMS HMASMTRM	C C C		
ICTGMSPL ICTICT_BAS	HMASMDC2	D Î	С		HMASMDRV	R C												
ICTIREQB ICTIREQI ICTIREQS ICTIREQT ICTIRQLS	HMASMARI HMASMICT HMASMARI HMASMICT HMASMARI HMASMTPA	0 0 0 0 0 0	Ö.		HMASMTPA HMASMICT HMASMTCR HMASMCPL HMASMTPD	CWRR		HMASMTCL HMASMTCL HMASMCP2 HMASMTR1	C C R		HMASMTCR HMASMTCL	R	1C		HMASMTCR	R		
ICTIRQND ICTIRQNM	HMASMAR1 HMASMTPD HMASMAR1	R R R			HMASMICT HMASMICT	D D		HMASMTCL HMASMTCL	R R		HMASMTCR HMASMTCR	R			HMASMTPA HMASMTPA	R		Þ
ICTIPONT ICTIROST ICTIXL	HMASMICT HMASMICT HMASMICT HMASMAAR HMASMICT	DDRD	С		HMASMTP2 HMASMCIL HMASMLKI	R R R		HMASMCOM HMASMTCL	R R		HMASMCPI HMASMTDD	RR			HMASMCPL HMASMTL2	R		
ICTIXLF ICTIXM	HMASMAR HMASMLKI HMASMAR2	222			HMASMCIL HMASMTBM HMASMCPL	R R		HMASMCOM HMASMTCL HMASMICT	R D		HMASMCPI HMASMTDD HMASMTBM	8 R A			HMASMCPL HMASMTL2 HMASMTCL	R R R		
ICTIXMF	HMASMTDD HMASMAR2 HMASMTL1	222			HMASMTL3 HMASMCPL HMASMTL3	R C R		HMASMZAP HMASMTBM HMASMZAP	R R R		HMASMTCL	R			HMASMTDD	R		
ICTIXP	HMASMSEC HMASMTMD	222			HMASMCPL HMASMTBL HMASMTMS	R _M		HMASMDLE HMASMTBM HMASMTPM	R R R		HMASMICT HMASMTCL HMASMUPI	R			HMASMIDU HMASMIDD HMASMZAP	R R R		•
ICTIXPF	HMASMCMP HMASMTBM	R			HMASMCPL HMASMTCL	R		HMASMDLE HMASMTDD	R		HMASMIDU HMASMTL1	R			HMASMTBL HMASMTMD	R R		
D=DEFINIT:	ION, REREA	AD,	M=MB	IT	E, C=COMP	ARE, E=	Q	UATE OPER	AND, M=	:MA	CRO, A=AB	SOL	UTE,	P	=PARAMETE	R		

				SYMB	OL USAGE					
SYMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
ICTIXPF ICTLAPF	HMASMTMS HMASMICT	R D	HMASMTRM HMASMLKI	R C	HMASMUPI	R	HMASMZAP	R		
ICTLCHN	HMASMAAR HMASMICT HMASMIDD	R	HMASMCIL HMASMLKI HMASMTL2	R R R	HMASMCOM HMASMTAD HMASMTL3	R _W	HMASMCPI HMASMTBM	R R	HMASMCPL HMASMTCL	R RWC
ICTLCPL	HMASMAAR HMASMICT	D W	HMASMCIL HMASMLKI	, C	HMASMCOM HMASMTCL	M _C	HMASMCPI HMASMTDD	M _C	HMASMCPL HMASMTL2	WC WC
ICTLCPY ICTLDC ICTLDDCK	HMASMCPI HMASMICT HMASMICT	D	HMASMLKI HMASMTDD	MC C	HMASMTL 2	W				
ICTLDEL ICTLEN ICTLEND	HMASMCOM HMASMICT HMASMAAR		HMASMICT HMASMTBM HMASMCIL	RW R	HMASMCOM	R	HMASMCPI	R	HMASMCPL	R
	HMASMDLE HMASMTDD	R	HMASMICT HMASMTL1	D R	HMASMLKI HMASMTL2	R R	HMASMTBM HMASMTL3	Ř R	HMASMTCL HMASMTSB	Ř R
ICTLFLG1 ICTLFLG2 ICTLFLG3	HMASMICT HMASMICT HMASMICT	D	HMASMLKI HMASMTL2	MC	HMASMT L 2	W				
ICTLFLG4 ICTLFLG5 ICTLFLG6	HMASMICT HMASMICT HMASMICT	D	HMASMLKI HMASMLKI	c	HMASMTL2 HMASMTL2	W				
ICTLFLG7 ICTLIBLK	HMASMICT HMASMICT HMASMICT	D D	HMASMLKI HMASMTL2 HMASMTL2	Č C	HMASMTL2 HMASMTMD HMASMTMD	W C C	HMASMTM1 HMASMTM1	W	HMASMTM2	WC
ICTLIBTX	HMASMTM3 HMASMICT	D	HMASMTL 2	W	HIMASITIND	C	HUMSHILL	~	HIMASITINE	WC
ICTLLEN ICTLLKD ICTLLNK	HMASMICT HMASMLKI HMASMCIL	D C	HMASMTBM	W						
ICTLMNAM ICTLMOD	HMASMAR 2 HMASMTL 1 HMASMAAR	D C	HMASMCPI HMASMZAP HMASMAR2	R C R C	HMASMDLE HMASMCIL	C R	HMASMICT HMASMCOM		HMASMLKI P HMASMCPI	R C R
ICTEMOD	HMASMCPL HMASMTBL	R R	HMASMDLE HMASMTBM	R R	HMASMICT HMASMTCL	D R	HMASMLKI HMASMTDD	R R	HMASMTAD HMASMTL1	R R
ICTLMOD_B	HMASMTL2 ASE HMASMICT	R C	HMASMTL3	R	HMASMTSB	R	HMASMZAP	R		
ICTLMSG ICTLNAME	HMASMICT HMASMAAR HMASMTL2	D C	HMASMTDD HMASMCOM	MC C	HMASMTL2 HMASMICT	D W	HMASMTAD	R	HMASMTDD	м
ICTLNE ICTLNOGO	HMASMICT HMASMAAR		HMASMLKI HMASMCOM	C	HMASMCPL	W	HMASMICT	D	HMASMTDD	W
ICTLOVLY ICTLPAGA	HMASMTL2 HMASMICT HMASMICT	D	HMASMLKI HMASMLKI	C						
ICTL PASS ICTL PROC	HMASMICT HMASMAAR HMASMICT	W	HMASMTSB HMASMCOM HMASMLKI	M C C	HMASMCPI HMASMTL2	WC W	HMASMCPL	WC	HMASMDLE	W
ICTLREFR ICTLRENT ICTLREUS	HMASMICT HMASMICT HMASMICT	D D	HMASMLKI HMASMLKI HMASMLKI	000	HMASMTL2 HMASMTL2 HMASMTL2	W W				
ICTLSCTR ICTLSP	HMASMICT HMASMICT	D	HMASMLKI	č	HIMASITIEZ	~				
ICTLSPLN ICTLTDEL ICTLTTR	HMASMICT HMASMICT HMASMICT	D	HMASMLKI	R	HMASMTL2	W				
ICTLXPND ICTM_SELP	HMASMICT HMASMTRM	D								
ICTMACDL ICTMACF4	HMASMICT HMASMICT HMASMICT	D								
ICTMACF5 ICTMACHN	HMASMAR 2 HMASMTMS	R R C	HMASMICT HMASMTM4		HMASMTAD	W	HMASMTBM	RWC	HMASMTMD	R
ICTMALIS ICTMAPF	HMASMCOM HMASMTM2 HMASMICT	P MC	HMASMCPI HMASMUPI	C	HMASMICT	D	HMASMLKI	С	HMASMTM1	W
ICTMASLB ICTMASM	HMASMAR2 HMASMAR2 HMASMSEC	F C	HMASMICT HMASMCMP HMASMTMD	D CC	HMASMTAD HMASMCPL HMASMTMS	R C C	HMASMTM2 HMASMICT HMASMTM4	D W	HMASMTM4 HMASMIDU HMASMTRM	R C WC
ICTMASOC ICTMATCH	HMASMICT HMASMTM1	D DRWC	HMASMTMD HMASMTM2	DRMC	HMASMTMS HMASMTM3	RWC DRWC	HMASMTRM	W		
ICTMCHN	HMASMAR2 HMASMTCL HMASMZAP	R R R	HMASMCPL HMASMTDD	R R	HMASMICT HMASMTL1	D P	HMASMTAD HMASMTL3	R R	HMASMTBM HMASMTM1	RW
ICTMCOPY ICTMCPL	HMASMCPI HMASMAAR HMASMCPI	R WC R C	HMASMICT HMASMAR2 HMASMCPL	D C	HMASMTM2 HMASMCIL HMASMICT	W _C	HMASMTM3 HMASMCMP HMASMLKI	M C C	HMASMCOM HMASMTCL	R C WC
	HMASMTL1 HMASMTM4	M C	HMASMTL 2 HMASMUPI	ä c	HMASMTM1 HMASMZAP	ິພ _ເ	HMASMTM2	พั	HMASMTM3	ũ
ICTMDC ICTMDEL ICTMDOAS	HMASMICT HMASMCOM HMASMICT	D WC	HMASMICT HMASMTM4	D 1 _M						
ICTMDOBJ ICTMDSTE	HMASMICT HMASMAR2 HMASMTM3	D WC	HMASMTAD HMASMICT	DW	HMASMTM2 HMASMTMD	W _C	HMASMTM3 HMASMTM1	MC M	HMASMTM4 HMASMTM2	R C WC
ICTMDSTL ICTMEND	HMASMOLE HMASMTM1 HMASMAAR	RWC	HMASMICT HMASMTM2 HMASMAR2	D RWC R	HMASMTAD HMASMTM3 HMASMAR3	RWC RWC	HMASMTL1 HMASMTM4 HMASMCIL	R R R	HMASMTMD HMASMTRM HMASMCOM	RW W R
	HMASMCPI HMASMSEC	R R	HMASMCPL HMASMTBL	RW	HMASMDLE HMASMTBM	Ř R	HMASMICT HMASMTL1		HMASMIDU HMASMTL3	R R
ICTMFLG1	HMASMTMD HMASMTM4 HMASMAR2	R	HMASMTMS HMASMTRM HMASMCPL	R R C	HMASMTM1 HMASMTSB HMASMICT	R R D	HMASMTM2 HMASMUPI HMASMIDU	R R C	HMASMTM3 HMASMTMD	R C
ICTMFLG2	HMASMTMS HMASMICT HMASMICT	D	HMASMTRM	RC	P					
ICTMFLG4 ICTMFLG5	HMASMICT HMASMICT HMASMAR2	D	HMASMICT	D	HMASMIDU	R C	HMASMTAR	W	HMASMTMR	W
ICTMFMID ICTMFXBS	HMASMTMS HMASMICT	ŘWC D	HMASMTM4		HMASMIDU	พีย	HMASMTAD	W	HMASMTMD	W
ICTMFXC ICTMGR ICTMHASM	HMASMICT HMASMTBL HMASMICT	DR D	HMASMTM2	WC	HMASMTM3	WC				
ICTMICHA	HMASMICT HMASMTM1	D	HMASMIDU HMASMTM2	RÎC RW	HMASMTAD HMASMTM3	W RW	HMASMTBM HMASMTRM	R C	HMASMTMS	R

ICTIXPF - ICTMICHA

SYMBOL	MODULE	ACCESS	MODULE	SY!		USAGE MODULE	ACCESS		MODULE	ACCESS		MODULE	ACCES	s
ICTMICHN	HMASMAR3 HMASMTMD	R R	HMASMICT HMASMTMS	DRW	_	HMASMIDU HMASMTM1	R RWC	PP	HMASMTAD HMASMTM2	W RWC	- P	HMASMTBM HMASMTM3	WC RWC	— ,
ICTMID ICTMIDAM ICTMIDEL	HMASMTRM HMASMICT HMASMAR3 HMASMAR2 HMASMTMD	P CCC	HMASMICT HMASMCPL HMASMTMS	D CC		HMASMIDU HMASMOLE HMASMTMI	ξ 000		HMASMTID HMASMICT HMASMTM2	D WC		HMASMTMS HMASMIDU HMASMTM3	₩ 000	
ICTMIDFM	HMASMTRM HMASMICT	D WC	HMASMUPI HMASMIDU	R C		HMASMTID	R		HMASMTMS	С		HMASMTRM	С	
ICTMIDF1 ICTMIDLS	HMASMICT HMASMAR3	D _R	HMASMIDU	R		HMASMTID	R		HMASMTMD	R		HMASMTMS	R	
ICTMIDND	HMASMTRM HMASMAR3	R	HMASMTSB HMASMICT	D.R		HMASMIDU	R		HMASMTMD	R		HMASMTMS	R	
ICTMIDPL ICTMIDPS	HMASMTRM HMASMICT HMASMAR3	o [®] c	HMASMTSB HMASMTMD HMASMICT	ຼັເ		HMASMTMS HMASMIDU	w _C		HMASMTMD	W		HMASMTRM	WC	
ICTMIDEG ICTMIDEM	HMASMICT HMASMICT	B	HMASMIDU	Č		HMASMTID	R		HMASMTMS	c		HMASMTRM	С	
ICTMIDTY ICTMIDUN	HMASMICT HMASMICT	Ď	HMASMIDU	Č		HMASMTID	W		HMASMTMS	С		HMASMTRM	С	
ICTMIDUP ICTMISEL	HMASMICT HMASMAAR HMASMCPI HMASMIKI HMASMTMS HMASMCMP	a Sooo	HMASMIDU HMASMAR2 HMASMCPL HMASMTCL HMASMICT	D E COOOO		HMASMTID HMASMAR3 HMASMTDD HMASMUPI HMASMTM4	22 23		HMASMTMS HMASMCIL HMASMICT HMASMTL1 HMASMZAP	00 00		HMASMTRM HMASMCMP HMASMIDU HMASMTMD	R W	
ICTMLEN ICTMLEP1 ICTMLEP2 ICTMLEP3 ICTMLEP4	HMASMICT HMASMICT HMASMICT HMASMICT HMASMICT	0000	HMASMTBL HMASMTL2 HMASMTL2 HMASMTL2 HMASMTL2	0000		HMASMTBM HMASMTM1 HMASMTM1	33 RR							
ICTMMACR	HMASMAAR HMASMCPL HMASMTCL HMASMTM2	R W	HMASMARZ HMASMDLE HMASMTL1 HMASMTM4	υυυυ		HMASMAR3 HMASMICT HMASMTMD HMASMTRM	D 20 C C C C C		HMASMCOM HMASMIDU HMASMTMS HMASMUPI	₽ 0000		HMASMCPI HMASMSEC HMASMTMW	000	
ICTMMACU	HMASMAAR HMASMCPL HMASMTL1 HMASMTM4	0000C	HMASMAR2 HMASMICT HMASMIMD HMASMUPI	MC		HMASMAR3 HMASMIDU HMASMIMS	R CCC		HMASMCOM HMASMSEC HMASMTMW	ooo		HMASMCPI HMASMTCL HMASMTM2	C C C R W C	
ICTMMIDE ICTMMIDU ICTMMOD	HMASMAR2 HMASMICT HMASMAR3	D C	HMASMICT HMASMIDU HMASMCIL	D MC		HMASMCMP	WC WC		HMASMCPI	С		HMASMCPL	R C	
ICTMMODE	HMASMOLE HMASMTL2 HMASMTM4 HMASMICT	A C C	HMASMICT HMASMTMD HMASMTRM			HMASMIDU	200		HMASMLKI HMASMTMW	R C		HMASMSEC HMASMTM1	RWC	
ICTMMSG	HMASMICT HMASMTM3	N N	HMASMTCL	W		HMASMTDD	M		HMASMTM1	W		HMASMTM2	W	
ICTMNAME	HMASMAAR HMASMCPI HMASMLKI HMASMTMD HMASMTM3	CCCC	HMASMAR2 HMASMCPL HMASMSEC P HMASMTMS HMASMTM4	R COCC	P	HMASMAR3 HMASMDLE HMASMTAD HMASMTMW HMASMTRM	CC C	P	HMASMASI HMASMICT HMASMTDD HMASMTM1 HMASMUPI	R CC		HMASMCIL HMASMIDU HMASMTL1 HMASMZAP	CCC	
ICTMNE ICTMNOGO	HMASMICT HMASMAAR	D MC	HMASMAR 2	, c		HMASMCMP	, c		HMASMCOM	R		HMASMCPL	MC	
ICTMOD	HMASMICT HMASMTM2 HMASMAR HMASMICT HMASMITL HMASMITL HMASMITL HMASMITL	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	HMASMTCL HMASMTM3 HMASMAR2 P HMASMIDU HMASMTBM P HMASMTL2 HMASMTL2	33 0	Þ	HMASMTIN HMASMAR3 HMASMCPI HMASMIKI HMASMIKI HMASMTIS HMASMTIS	UCC RRRRRR		HMASMUPI HMASMASI HMASMCPL HMASMSEC HMASMTMD HMASMTMD HMASMTM4	33 22 C	P	HMASMCIL HMASMDLE HMASMTAD HMASMTID HMASMTIS HMASMTRM	3 RRRRRR C	P
ICTMOD_BA	HMASMTSB	Ř	HMASMUPI	Ř		HMASMZAP	Ř		MIASITITE	•		HILASIII KII	•	-
ICTMODF4 ICTMODF5 ICTMODF6 ICTMODF7 ICTMODID	HMASMICT HMASMICT HMASMICT HMASMICT HMASMICT HMASMAR3 HMASMTSB	D	HMASMTMW HMASMICT	R D		HMASMIDU	R C	P	HMASMTMS	P	P	HMASMTRM	R C	P
ICTMODST ICTMOVLY ICTMPAGA ICTMPASS	HMASMICT HMASMICT HMASMICT HMASMICT	D	HMASMTID	MC		HMASMTRM	WC		HMASMTSB	W				
ICTMPRMS ICTMPROC	HMASMAAR HMASMAAR HMASMCPL HMASMTM2	EEE O	HMASMTL2 HMASMCIL HMASMDLE HMASMTM3			HMASMTM1 HMASMCMP HMASMICT HMASMUPI	M C		HMASMCOM HMASMLKI HMASMZAP	R C		HMASMCPI HMASMTL1	RWC	
ICTMREFR ICTMRELF	HMASMICT HMASMCIL	D LC	HMASMCPI	, c		HMASMICT			HMASMTL 2	R C		HMASMTMD	c	
ICTMRELN	HMASMTM1 HMASMCIL HMASMTM2	R _M	HMASMTM2 HMASMCPI HMASMTM3	R W		HMASMTM3 HMASMICT	DW		HMASMLKI	С		HMASMTM1	W	
ICTMRENT ICTMREUS ICTMRMID	HMASMICT HMASMICT HMASMAR2 HMASMTMS	D RWC	HMASMICT HMASMIM4			HMASMIDU HMASMTRM	R C		HMASMTAD	W		HMASMTMD	w	
ICTMSCTR ICTMSELM	HMASMICT HMASMAR2	D C	HMASMCPL	С		HMASMDLE	w c		HMASMICT	D		HMASMIDU	С	
ICTMSP ICTMSPLN ICTMSRCR	HMASMICT HMASMICT HMASMAAR	С	HMASMTBL HMASMAR2	₩ _C		HMASMAR3	_ c		HMASMCOM	¢		HMASMCPI	ç	
ICTMSRCU	HMASMCPL HMASMTCL HMASMTM3 HMASMAAR HMASMICT	R CCC RW D	HMASMDLE HMASMTL1 HMASMTM4 HMASMAR2 HMASMIDU	R.		HMASMICT HMASMIMD HMASMIRM HMASMAR3 HMASMSEC	DOOOO		HMASMIDU HMASMIMS HMASMUPI HMASMCOM HMASMICL	00000		HMASMSEC HMASMTMW HMASMCPL HMASMTL1	P C	
ICTMSSI	HMASMTMD HMASMTRM HMASMICT	MC D	HMASMTMS HMASMUPI HMASMTAD HMASMTAD	EE 33		HMASMTMU HMASMTMD	WC WW		EMTMSAMH EMTMSAMH	RWC WC RWC		HMASMTM4 HMASMUPI HMASMTM3	R C	
ICTMSYSL ICTMTCHN	HMASMICT HMASMCIL HMASMLKI HMASMTM2	R	P HMASMTAD HMASMTAD P HMASMTRM	W W W	P	HMASMCPI HMASMTBM HMASMUPI	WC R	P	HMASMTM2 HMASMDLE HMASMTMD	WC	P	HMASMICT HMASMICT HMASMIM1	DRWC	,
D=DEFINIT	ION, RERE	AD, WEWR	ITE, C=COM	PARE,	E= E G	NATE OPER	RAND, M	=M/	ACRO, A=A	BSOLUTE	, 1	P=PARAMET	R	

ICTMICHN - ICTMTCHN

						ACCESS		ACCESS	MODULE	ACCESS	
CTMTRX CTMUCHN CTMUMND	HMASMCIL HMASMICT HMASMICT	wc D	HMASMICT HMASMTAD	D W	HMASMLKI	С					_
CTMUMNM CTMUMNT CTMVCHN	HMASMICT HMASMICT HMASMICT HMASMTM2 HMASMTM1 HMASMICT	DDD R	HMASMTAD P HMASMTM3 HMASMTM2 HMASMTMS	R R C	HMASMTBM HMASMTM3	WC R	HMASMTMS	RW	HMASMTM1	WC	F
CTMVRNM CTMVRNT CTMWRK CTMXPND	HMASMICT HMASMICT HMASMICT HMASMAR3	D c	HMASMTMS HMASMTMD HMASMCOM	wc 0	HMASMTMS HMASMCPL	MC	HMASMICT		HMASMIDU	ç	
CTMXUPD CTMZAP	HMASMLKI HMASMTMW HMASMAR2 HMASMAR3 HMASMSEC	RACOCO	HMASMSEC HMASMICT HMASMCOM HMASMTL 2	C C C	HMASMTL2 HMASMIDU HMASMCPL HMASMTMD	C CCC	HMASMTMD HMASMICT HMASMTMS	D C	HMASMIDU HMASMIDU HMASMIMW	c	
CTM ZMPR ZMPR CTMOMST CTNOOLMD CTNOOPFX CTNOPFX CTNOPRNM CCTNPRNT CCTNPRCAND	HMASMICT HMASMICT HMASMICT HMASMICT HMASMICT HMASMICT HMASMICT HMASMICT HMASMICT HMASMICT HMASMICT HMASMICT HMASMICT HMASMICT HMASMICT HMASMICT	RWC DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	HMASMZAP	č	miasiffic	W C	masiiris	·		·	
CTPADDP CTPBCHN CTPCDSE CTPCHN	HMASMTPR HMASMCPL HMASMART HMASMAMP HMASMTAD HMASMTAD HMASMART HMASMICT	R R R D OO	HMASMICT HMASMSEC HMASMAR2 HMASMCPL HMASMTBM P HMASMTMS HMASMAR2	C CC	HMASMTAD HMASMCPL HMASMTCL HMASMTCL HMASMAR4 HMASMAR4 HMASMTMJ	3 2 3 3 3 3 3 3 5 0 0 0	HMASMTBM HMASMICT HMASMICT HMASMUPI HMASMCMP HMASMCMP	W C	HMASMTEC HMASMSEC HMASMIDU HMASMTL1 HMASMCPL HMASMCPL HMASMTSB	22 23 C	F
CTPDBYP CTPDCHN	HMASMUPI HMASMICT HMASMAR4 HMASMTBM	С	HMASMTD1 HMASMCPL HMASMTD1	C	HMASMICT P HMASMTEC		HMASMSEC P HMASMTPA	R	HMASMTAD HMASMTP2	W	
CTPDCPL CTPDELP CTPDEXP	HMASMAR4 HMASMAR1 HMASMICT	00 D	HMASMICT HMASMCPL HMASMAR2 HMASMIDU HMASMTMJ	PCCC	HMASMICT HMASMCPL HMASMSEC HMASMTPA		HMASMTEC HMASMCP2 HMASMTCR HMASMTPD	M CCC	HMASMTPR HMASMDLE HMASMTD1 HMASMTPS	. 0000	
CTPDIMP	HMASMTMD HMASMTR1 HMASMAR1 HMASMICT HMASMTMD	CCC C	HMASMTSB HMASMAR2 HMASMIDU HMASMTMJ	P 000	HMASMCPL HMASMSEC HMASMTPA	000	HMASMCP2 HMASMTCR HMASMTPD	000	HMASMDLE HMASMTD1 HMASMTPS	0000	
CTPECPL	HMASMTR1 HMASMACL HMASMACL HMASMACP2 HMASMTBM HMASMTBM HMASMTPR HMASMUPI		HMASMTSB HMASMCPL HMASMAR3 HMASMAR3 HMASMTCL HMASMTPJ HMASMTPS HMASMZAP	33 EE 000	HMASMCP2 HMASMAR4 HMASMAR4 HMASMICT HMASMTCR HMASMTPA HMASMTRM	C W R D R R R	HMASMICT HMASMUPI HMASMCMP HMASMIDU HMASMIDD HMASMIPD HMASMIPD	D C RR RR RR R	HMASMIDU HMASMZAP HMASMCPL HMASMTBL HMASMTD1 HMASMTPO HMASMTSB	000 000	
CTPFLF CTPFLGA CTPFLG1 CTPFLG2	HMASMICT HMASMICT HMASMCPL HMASMICT	D	HMASMTPO HMASMICT		HMASMTSB HMASMTEC	M					
CTPFLG3 CTPFLG4 CTPFLG5 CTPFLG6 CTPFLG8	HMASMICT HMASMICT HMASMICT HMASMICT HMASMICT	0000	HMASMSEC HMASMSEC	R R	HMASMTEC HMASMTEC	M					
CTPFLG9 CTPFMID	HMASMICT HMASMAR1 HMASMTAD HMASMTM4	R R	HMASMAR4 HMASMTD1 HMASMTPA	R C M	HMASMCPL HMASMTEC HMASMTPO	R WC R WC	HMASMICT HMASMTMD HMASMTPR		HMASMSEC HMASMTMS HMASMTPS	R C	
CTPGCPL CTPGELM	HMASMTSB HMASMCPL HMASMAR1 HMASMTCR HMASMTPD	EOOEO	HMASMCP2 HMASMDLE HMASMTDD	CCC	HMASMICT HMASMICT HMASMTD1	D C	HMASMIDU HMASMTMD	₽ C C	HMASMTCL HMASMTMJ	C	
CTPICHN	HMASMAR1 HMASMTAD HMASMTPA HMASMTSB	R W RR	HMASMCPL HMASMTBM HMASMTPD	`wc	P HMASMCP2 HMASMTCL P HMASMTPR	R R	P HMASMICT HMASMICR P HMASMIP2	RWC	HMASMSEC HMASMTEC HMASMTR1	R C	,
CTPIRQP CTPJCLP CTPLEN CTPLRFP	HMASMICT HMASMCPL HMASMICT HMASMICT	D C	HMASMTEC HMASMICT HMASMTBL	D _R	HMASMTPD HMASMTBL	C	HMASMTMJ	С			
CTPMDLP CTPMSG CTPMSL	HMASMCPL HMASMCPL HMASMTMD HMASMICT	D CC D	HMASMICT HMASMICT HMASMTMJ HMASMTMD	D MC	HMASMTBL HMASMTCL HMASMTPD	# 00	HMASMTMJ HMASMTCR HMASMTRM	E C	HMASMTDD HMASMTSB	MC	
CTPNCHN	HMASMICT HMASMAR HMASMAMP HMASMIDU HMASMITU HMASMITC HMASMITC HMASMITC	2 2 2 3 3 3 0 U	HMASMARI HMASMCPL HMASMTCL HMASMTL2 HMASMTPD HMASMZAP	EE HA W	HMASMAR2 HMASMAR2 HMASMCP2 HMASMTCR HMASMTMD HMASMTPR	M C C C C C C C C C C C C C C C C C C C	HMASMAR4 HMASMAR4 HMASMDLE HMASMTDD HMASMTMJ HMASMTRM	EEEE O	HMASMTEC HMASMCIL HMASMICT HMASMITPI HMASMTPA HMASMTR1	C W CCC	F
CTPNOLB CTPNPRP CTPONUM	HMASMICT HMASMICT HMASMCPL HMASMTRM	D	HMASMTEC HMASMICT	D W	HMASMTMD	R C	HMASMTMJ	R C	HMASMTPO	RWC	
CTPPASS	HMASMCP2 HMASMAR1	, MC	HMASMICT HMASMAR3		HMASMTMD HMASMCPL HMASMTBM	WC R WC	P HMASMTPA P HMASMCP2 HMASMTCL	WC F	HMASMTPD HMASMICT HMASMTCR	D RWC	

ICTMTRX - ICTPPCHN

					<u>\$</u> Y	MBO	L USAGE								
SYMBOL	MODULE	ACCESS	_	MODULE	ACCES	S	MODULE	ACCESS	-	MODULE	ACCESS	-	MODULE	ACCESS	_
ICTPPCHN ICTPPDEL	HMASMTPR HMASMCPL	R C		HMASMTPS HMASMICT HMASMTEC	D R		HMASMTR1 HMASMTD1	w C	P	HMASMTSB	R	P			
ICTPPREP ICTPPROC ICTPPTR	HMASMICT HMASMCOM HMASMAAR HMASMIDU HMASMIL2	W C R	P	HMASMAR2 HMASMAR1 HMASMLKI HMASMTMD	WC R R R R RWC		HMASMICT HMASMAR3 HMASMCPL HMASMTCS HMASMTRS HMASMTRM	R R R C		HMASMTMJ HMASMASI HMASMDLE HMASMTDD HMASMTM1 HMASMUPI	R R R R		HMASMCIL HMASMICT HMASMTL1 HMASMTM2	D R W	P
ICTPRCHN ICTPRCND	HMASMTM3 HMASMTAD HMASMTPA HMASMICT	R R D		HMASMTM4 HMASMCPL HMASMTBM HMASMTPD HMASMTPR	W WC WC	P P	HMASMCP2 HMASMTCL HMASMTPR HMASMTSB	R C M R C	P	HMASMICT HMASMICR HMASMIR1		P	HMASMSEC HMASMTEC HMASMTSB	R C	P
ICTPRECD ICTPRECT ICTPREDO ICTPREFIX	HMASMICT HMASMICT HMASMICT	D		HMASMSEC HMASMSEC HMASMTMS HMASMDRV	R R C		HMASMTEC HMASMTEC HMASMTPA HMASMDSU	333 R							
ICTPRELN ICTPRELS	HMASMCPL HMASMAR1 HMASMTMD	R R	P	HMASMICT HMASMCPL HMASMTPA	D R R		HMASMTEC HMASMCP2 HMASMTPO	Ľ R R		HMASMTCL HMASMTR1	R R		HMASMTCR	R	
ICTPREND ICTPRENM	HMASMARI HMASMTPA HMASMARI HMASMTPA	R R R	D	HMASMICT HMASMICT HMASMICT	D R D R C		HMASMTCL HMASMTSB HMASMTCL HMASMTSB	R R R		HMASMTCR HMASMTCR	R R		HMASMTMD HMASMTMD	R R	P
ICTPRENT ICTPREQB ICTPREQI	HMASMICT HMASMAR1 HMASMICT	D C	_	HMASMICT			HMASMTCL	, c		HMASMTMD	С				
ICTPREQP ICTPREQS ICTPREQT	HMASMICT HMASMAR1 HMASMICT	D C		HMASMTEC HMASMICT HMASMTCR	DW		HMASMTCL	С		HMASMTCR	MC				
ICTPREST ICTPROCS ICTPRQBY	HMASMICT HMASMAAR HMASMTCL HMASMICT	D WC		HMASMCPI HMASMTDD HMASMTCL	a a c		HMASMICT HMASMTMJ HMASMTCR	D W		HMASMLKI HMASMUPI	M		HMASMSEC HMASMZAP	M _C	
ICTPROCK ICTPROCK ICTPSBYP	HMASMICT HMASMICT HMASMICT	D D		HMASMTCL HMASMTCL HMASMTEC	A 000		HMASMTCR HMASMTCR	W W		HMASMTR1 HMASMTR1	CC				
ICTPSCHN	HMASMAR3 HMASMSEC HMASMTEC HMASMTPS HMASMICT	R R C R	P	HMASMCPL HMASMSUP HMASMTMD HMASMTR1 HMASMTPA	R R R R W		HMASMCP2 HMASMTAD HMASMTPA HMASMTSB HMASMTPD	C J R JC	P	HMASMICT HMASMTBM HMASMTPD	D WC		HMASMIDU HMASMICR HMASMIPR	R R	
ICTPSP ICTPSPLN ICTPSUPN	HMASMICT HMASMICT HMASMAR1	Ď		HMASMTBL HMASMCPL	W _C		HMASMCP2	С		HMASMICT	D		HMASMTCL	С	
ICTPSUPP	HMASMTCR HMASMTPD HMASMICT	RWC		HMASMTEC HMASMTR1 HMASMTEC	M _C		HMASMTMD HMASMTSB HMASMTPD	000		HMASMTMJ	С		HMASMTPA	С	
ICTPTF	HMASMASI HMASMCPL HMASMEKI HMASMTBM HMASMTEC HMASMTPS HMASMTPS HMASMTPS	R R R R R R R R R	P	HMASMARI HMASMCP2 HMASMSEC HMASMTCL HMASMTL1 HMASMTP1 HMASMTP2 HMASMTP2	******	P P	HMASMAR2 HMASMCMP HMASMOLP HMASMTCR HMASMTL2 HMASMTL2 HMASMTPD HMASMTPD HMASMTPM	*	P P P	HMASMAR3 HMASMICOM HMASMICOD HMASMITOD HMASMITMD HMASMITM3 HMASMITR1	RR	P P	HMASMAR4 HMASMIDUL HMASMIDUL HMASMIDI HMASMITH HMASMITH HMASMITSB	4444444444	PP
ICTPTF_BAS	HMASMUPI Se HMASMICT	R C		HMASMZAP	R										
ICTPTFS	HMASMARI HMASMICT HMASMITAD HMASMITAD HMASMITAD HMASMITAD HMASMITAD HMASMITAD HMASMITAD	R R M		HMASMAR2 HMASMCPI HMASMITCL HMASMITCL HMASMITM3 HMASMITPR HMASMITSB HMASMCPI		P P M M	HMASMAR3 HMASMCPL HMASMTCR HMASMTMJ HMASMTM4 HMASMTPS HMASMUPI HMASMCPI HMASMCPI	RRR RRR RR	P P PP	HMASMAR4 HMASMSEC HMASMTDD HMASMTPA HMASMTPA HMASMTP2 HMASMICA HMASMICA		P	HMASMASI HMASMDLE HMASMSUP HMASMTD1 HMASMTM1 HMASMTPD HMASMTRM HMASMTAD	RRRR R W	P
ICTPTPS ICTPTR ICTPTR1	HMASMTEC HMASMICT HMASMTBL HMASMICT	D DRW M		HMASMTMJ HMASMTPS HMASMTCL HMASMTR1	R WC DR WC				•		-			•	
ICTPTYPE	HMASMAR1 HMASMSEC HMASMTEC HMASMTPO	R W C		HMASMAR4 HMASMTCL HMASMTMD HMASMTPR	ουυυ		HMASMCPL HMASMTCR HMASMTMJ HMASMTP2	R C R C		HMASMTDD HMASMTDD HMASMTMS HMASMTRM	R C C		HMASMICT HMASMID1 HMASMIM4 HMASMISB	D WC	
ICTPUSR1 ICTPUSR2 ICTPUSR3 ICTPUSR4 ICTPUSR5 ICTPUSR6 ICTPUSR7	HMASMICT HMASMICT HMASMICT HMASMICT HMASMICT HMASMICT HMASMICT	D D D D		HMASMTD1	WC										
ICTPUSR8 ICTPVCHN	HMASMICT HMASMICT HMASMTPO	D R		HMASMSEC	R		HMASMTAD	M		HMASMTBM	WC		HMASMTEC	С	P
ICTPVERJ ICTPVERN ICTPVRSP ICTPWRKO ICTREGEN	HMASMICT HMASMICT HMASMICT HMASMICT HMASMICT	D D		HMASMZAP HMASMSEC HMASMTEC HMASMTMD	R W W C		HMASMTEC	W							
ĪĊŤŖĔĢĹS	HMASMAR1 HMASMTPA	R R		HMASMCPL HMASMTR1	R R		HMASMCP2	R		HMASMTCL	R		HMASMTCR	R	
ICTREQND ICTREQNM ICTREQNT ICTREQST	HMASMAR1 HMASMAR1 HMASMICT HMASMICT	R R D		HMASMICT HMASMICT			HMASMTCL HMASMTCL	R R		HMASMTCR HMASMTCR	R R		HMASMTPA HMASMTPA	R	P
ICTRES ICTRREQB ICTRREQI	HMASMICT HMASMARI	D C		HMASMICT	D		HMASMTCL	С							
ICTRREQS ICTRREQT ICTSBYND ICTSBYNM ICTSBYNT	HMASMAR1 HMASMICT HMASMICT HMASMICT HMASMICT	C		HMASMICT HMASMTCR	D W		HMASMTCL	С		HMASMTCR	WC				

D=DEFINITION, R=READ, W=WRITE, C=COMPARE, E=EQUATE OPERAND, M=MACRO, A=ABSOLUTE, P=PARAMETER

YMBOL	MODULE ACCES		MODULE ACCESS	MODULE ACCESS	MODULE ACCES
CTSP CTSR	HMASMICT D HMASMTP2 DR				
CTSUPLS	HMASMCPL R HMASMTPR R	HMASMIDU R	HMASMSUP R	HMASMTMD R	HMASMTPD R
CTSUPND	HMASMCPL R C	HMASMCP2 R HMASMTPD R	HMASMICT D HMASMTPR R	HMASMIDU R HMASMTR1 R	HMASMSUP R HMASMTSB R
CTSUPNM	HMASMCPL R C	HMASMCP2 C	HMASMICT D	HMASMIDU C	HMASMSUP R HMASMTSB R
CTSUPNT	HMASMICT D			HMASMTR1 C HMASMDLE R	
CTTALLS	HMASMCIL R HMASMTM1 R	HMASMCOM R HMASMTM2 R	HMASMTRM R	HMASMUPI R	
CTTALND	HMASMCIL R HMASMLKI R	HMASMOOM R HMASMUPI R	HMASMCPI R	HMASMDLE R	HMASMICT D
CTTALNM	HMASMCIL R HMASMLKI R	HMASMCOM HMASMTMD R	P HMASMCPI R HMASMUPI R	HMASMDLE F	HMASMICT D
CTTG1	HMASMAR2 R HMASMTAD W	HMASMCOM RWC HMASMTDD R	HMASMCPI RWC HMASMTL1 W	HMASMICT D HMASMTL2 RWC	HMASMLKI RWC Hmasmzap R
CTTG2	HMASMAR 2 R Hmasmtad W	HMASMCOM RWC HMASMTDD R	HMASMCPI RWC HMASMTL2 W	HMASMICT D HMASMZAP R C	HMASMLKI RWC
TTIND1	HMASMCOM WC	HMASMICT D	HMASMLKI WC	HMASMTL1 W	HMASMTL2 W
CTTIND2	HMASMCOM C	HMASMICT D HMASMCOM R C	HMASMTL2 W HMASMCPI R C	HMASMZAP WC HMASMDLE R	HMASMICT D
	HMASMTAD W HMASMTM4 R	HMASMTDD R C HMASMUPI R C	HMASMTMD W	HMASMTM2 W	HMASMTM3 W
TVRSLS	HMASMTPO R HMASMICT D	HMASMTMS R	HMASMTPO R		
TVRSNM	HMASMICT D	HMASMTMS C	HMASMTPO C		
TVRSNT	HMASMICT D	HMASMALC R	HMASMARL R	HMASMARI R HMASMASM R	HMASMAR2 R HMASMBDL R
	HMASMAR3 R HMASMBUE R	HMASMAR4 R HMASMBUR R	HMASMASI R HMASMCIL R	HMASMCMP R	HMASMCOM R
	HMASMCRW R	HMASMCPL R HMASMDC1 R	HMASMCPY R HMASMDC2 R	HMASMCP2 R HMASMDLE R	HMASMCRD R HMASMDRV R
	HMASMDR1 R HMASMFPT R	HMASMDR2 R HMASMFVL R	HMASMDSU R HMASMFXF R	HMASMDS1 R Hmasmgta R	HMASMEIS R HMASMIDU R
	HMASMIO R HMASMLCP R	HMASMION R HMASMLC1 R	HMASMIO1 R HMASMLID R	HMASMLCC R HMASMLKD R	HMASMLCD R HMASMLKI R
	HMASMLOG R HMASMMPV R	HMASMMPD R HMASMMSG R	HMASMMPE R HMASMPGC R	HMASMMPH R HMASMRCC R	HMASMMPI R HMASMRCD R
	HMASMRCF R HMASMRJD R	HMASMRCL R HMASMSCN R	HMASMRDS R HMASMSEC R	HMASMREC R HMASMSER R	HMASMREJ R HMASMSTA R
	HMASMSUB R	HMASMSUP R	HMASMTAD R	HMASMTAI R HMASMTDD R	HMASMTBL R HMASMTD1 R
	HMASMTEC R	HMASMTID R	HMASMTL1 R	HMASMTL2 R	HMASMTL3 R
	HMASMTMD R HMASMTM2 R	HMASMTMJ R HMASMTM3 R	HMASMTMS R HMASMTM4 R	HMASMTMW R HMASMTPA R	HMASMTPC R
	HMASMTPD R HMASMTP2 R	HMASMTPL R HMASMTRM R	HMASMTPO R HMASMTR1 R	HMASMTPR R HMASMTSB R	HMASMTPS R HMASMUCD R
	HMASMUCI R HMASMUPI R	HMASMUCZ R HMASMUXC R	HMASMUC3 R HMASMUXD R	HMASMUC4 R HMASMVLU R	HMASMUPD R HMASMXRF R
CCA	HMASMZAP R HMASMDSU DR				
CHECKS	HMASMTMS D HMASMUC2 D	1			
ERR ERROR	HMASMTMS D HMASMTMD D	•			
FILE FILEL	HMASMMPH D HMASMMPH D				
FILER	HMASMMPH D	•			
GETA LPAR	HMASMMPH D	HMASMREC D M			
NUL OP	HMASMUC2 D				
PERD R	HMASMMPH D	l			
RELF RPAR	HMASMMPH D	I			
URSTRE UUPDAT	HMASMIDU DR HMASMIDU DR				
UUPPTF VAL	HMASMIDU DR HMASMUC2 D				
VAL1 ANUCO	HMASMMPH D HMASMLKD D C	HMASMREC D			
HIOSUP KEY	HMASMCOM D HMASMMPD D	•			
MAP	HMASMCRW	HMASMDC2 M	HMASMPRM C	HMASMTBL M	HMASMTCL
PROC	HMASMTPC HMASMREC DR	I HMASMTP2 M			
REQ REQNDX	HMASMARI DR HMASMTPC DRW				
ADCB Alist	HMASMIO RW HMASMIO R				UM46MTD3 BBU
OPTR	HMASMIDU DRW HMASMIMD DR	P HMASMREC DRW	HMASMTCL DRW	HMASMTCR DRW	HMASMTD1 DRW
EPLS	HMASMALC R	1			
ODENT	HMASMTMD DRW HMASMTMD DR	P			
PADD	HMASMTD1 D WC HMASMIO DR C	HMASMTMD DRW			
ADDR BUFF	HMASMGTA DRW HMASMEIS DR				
CLFND CLK	HMASMIKD D WC				
CLPARM CLR01	HMASMIKD D WC	1			
CLSYSL	HMASMIKD D WC				
COMPLT	HMASMARI DR HMASMMPH DR	HMASMAR2 DR			
COMPMG	HMASMORV D WC	UMACHTEM BELLE	HMASMUPD DR C		
CR DD		HMASMTBM DRWC	HIMSHUPD DR C		
DDK DDNM	HMASMCPY D				
DDS	HMASMCPY D				

276 OS/VS System Modification Program (SMP) Logic

- INDDS

ICTSP

SYMBOL USAGE MODULE ACCESS MODULE ACCESS MODULE ACCESS MODULE ACCESS MODULE ACCESS SYMBOL HMASMCPY D WC
HMASMGPF R
HMASMUC2 DR
HMASMUC2 DR C
HMASMUC2 DR C
HMASMWC1 DRWC
HMASMWC1 DRWC
HMASMWC1 DRW
HMASMCPY DRW
HMASMCPY DRW
HMASMCPY DRW
HMASMCPY DRW
HMASMCPY DRW
HMASMCPY CRW
HMA INDDSW INDEX INDSDIR INDSPRI INDSSEC INDSSPC INDX HMASMUC2 DRWC HMASMMCD DRWC HMASMMSG DRW HMASMPMG DRWC HMASMAR4 DRWC HMASMMPE DRWC HMASMAR2 DRWC HMASMAR3 DRWC INDXMAX INDXSTEP INDXT INDX1 INFMJFCB HMASMTR1 DRW M P HMASMRCF M HMASMTDD HMASMUC2 INFO c ^M C M HMASMP04 HMASMTBL C HMASMDRV HMASMPRM HMASMREC HMASMP06 INIT М INIT_P INIT_TXT INIT_TXT2 HMASMP15 RW INITDSRG INITIAL INITICTM INITIOP INITIPO INITIPO INITPTR INITPTR INITRC HMASMIOD DR WASMIOD DR HMASMIOD DR HMASMIOD DR WASMIOD WAS HMASMTM2 DR HMASMTM3 DR HMASMTM4 DR HMASMEIS DRWC HMASMGTA DRWC HMASMLID DRWC HMASMTPA DRW INITSW INITTPA INLJČLIN INOUT INPUT HMASMTCL D HMASMCIL D HMASMCOM DR HMASMCPI DR OIMSAMH м INPUTDD HMASMCPI DRWC INTERR INTELAGS INTERC INTERCT INTERCT HMASMTDD D W HMASMTCL D INTRTYPE INVALICE INVALICE INVALICE INVELMN INVLOPG INVOKSI INVOKE INVOKER INVOKER INVOKER INVOKER INVSY HMASMTPS DR HMASMTMS D HMASMMPH D C HMASMTMD DR HMASMUC3 D HMASMUC4 D P INVSYSMD
IN3
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IOBCSW
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IOP_ALL HMASMRCD HMASMMPI HMASMTEC HMASMTBM R HMASMTAI R IOP_ASM HMASMIOP
IOP_ASM_END HMASMIOP D
IOP_BASE HMASMIEC R
IOP_BASE_EXP c HMASMTL1 R HMASMTPC R HMASMIOP С HMASMTPL P HMASMTPP P HMASMTRM R HMASMTSB R IOP_BASED IOP_BASED

HMASMIOP

IOP_BPDS HMASMIOP

IOP_BPDS_END

HMASMIOP D

IOP_CRQ HMASMIOP IOP_CRQ HMASMIL IOP_CRQ HMASMIOP D HMASMIOP D HMASMIOP D С IOP_CR HMASMIOP
IOP_DLB HMASMIOP
IOP_DLB HMASMIOP
IOP_EOF HMASMIOP
IOP_EOF_END
HMASMIOP
IOP_ICT HMASMIOP
HMASMICC R
HMASMITSB R C С HMASMTAI R HMASMTBM R HMASMTPL R HMASMTCL HMASMTPR IOP_IO_SEGI
IOP_LMD HMASMIOP
IOP_LMD_END
IOP_MC HMASMIOP
IOP_MC HMASMIOP HMASMMPI R IOP_MAC HMASMIOP IOP_MAC_END HMASMIOP D

DEDEFINITION, REREAD, WEWRITE, CECOMPARE, EEEQUATE OPERAND, MEMACRO, ASABSOLUTE, PEPARAMETER

INDDSW - IOP_MAC_

SYMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCE
OP_MAP_	PTF HMASMIO	РС	HMASMTEC	R	HMASMTPA	R	HMASMTPL	R	HMASMTPR	P
OP_MOD_	HMASMISI HMASMIO END	B R C								
OP_PTF	HMASMIO HMASMIO END									
OP_PTF_	HMASMIO									
OP_PTS OP_PTS_	HMASMIO HMASMIO END	РС								
OP_SRC OP_SRC_	HMASMIO HMASMIO END	РС								
OP_SYS OP_SYS_	HMASMIO HMASMIO END	РС								
OP_T_AL	L HMASMIO									
OP_T_AL	L_END HMASMIO	P D	UMAGMI OD		_					
OPABUNT OPABUPT OPABUTP	HMASMBU	E WC	HMASMLCD HMASMBUR HMASMIOP	R C	HMASMIOP	D				
OPACC	HMASMCP HMASMSE	L W	HMASMF PT HMASMUC1	, MC	HMASMFXF HMASMUC2	MC C	HMASMIOP		HMASMREJ	С
OPACCD	HMASMCP HMASMXRI HMASMCP	FR	HMASMFPT		P HMASMIOP		HMASMSEC	W W	HMASMUC1 HMASMXRF	RWC R
OPACDS	HMASMAA HMASMDSI HMASMIOI HMASMSE	R R U R P D	HMASMCPL HMASMDS1 HMASMIO1 HMASMSUP	R C C	HMASMIDE HMASMEIS HMASMIC1 HMASMIBL	D C	HMASMDR1 HMASMIDU HMASMLID HMASMTMS	DR RR R	HMASMDR2 HMASMIO HMASMPDS HMASMTM1	R R C
· 	HMASMTM: HMASMTS!	2 R B D	HMASMTM3 HMASMUC1	R	HMASMTPL HMASMXRF	R	HMASMTPR	R	HMASMTRM	
OPACDSD OPACRQ	HMASMEI: HMASMCRI HMASMIO		HMASMIO HMASMDR1 HMASMION	DR C	HMASMIOP HMASMDR2 HMASMIOP	D _R	HMASMRDS HMASMDSU HMASMIO1	R R C	HMASMTBL HMASMEIS HMASMLID	
OPACROD	HMASMPG!	C R S D	HMASMEDS HMASMIO	C	HMASMTBL HMASMIOP	DR D	HMASMUC3 HMASMRDS	R R	HMASMTBL	
DPALC DPALIS	HMASMAL HMASMA HMASMAA	I R	HMASMCIL HMASMRCD HMASMIO	R R WC	HMASMUPD HMASMUPD HMASMIOP	R R	HMASMIO HMASMTL2	c c	HMASMIOP	D
DPALL DPALLOC	HMASMIO HMASMEI	P C S R	HMASMIO	W	HMASMIOP			_		_
DPANYDD Dpapf	HMASMAA HMASMTM HMASMIO	JR	HMASMCOM HMASMUPD HMASMLCD	R C	HMASMIO HMASMLKD	C W	HMASMIOP HMASMTL 2	W	HMASMTL 2	R
OPAPP	HMASMCP HMASMSE	C W	HMASMFPT HMASMUC1	MC C	HMASMFXF HMASMUC2	MC C	HMASMIOP	D	HMASMREJ	C
OPAPPD OPAPPT	HMASMBU HMASMUC HMASMBU	1 RWC	HMASMCPL HMASMXRF HMASMCPL	RW R RW	HMASMFPT HMASMFPT		P HMASMIOP P HMASMIOP		HMASMSEC	W
DPASM	HMASMXR HMASMAS	F R I R	HMASMASM	R	HMASMBUE	ç	HMASMBUR	R C	HMASMIO	
DPASMLC	HMASMIO HMASMIR HMASMAS	M R M R	HMASMIOP HMASMUC1 HMASMIOP	D R	HMASMLCD HMASMUC4 HMASMUC1	C R	HMASMLID HMASMXRF	R C R C	HMASMTM4	R
DPASML 1 DPASML 2	HMASMIO	PD	UMACMTOR							
DPASMNT DPBAOSL DPBAPF		R C	HMASMIOP HMASMIOP	D	HMASMTL 2	С				
DPBAPFC DPBAPFL	HMASMIO	P D P D	HMASMTL 2	С		_				
DPBAPFP DPBCEND DPBDC	HMASMAA HMASMIO	R	HMASMIOP HMASMIOP HMASMTL2	D C	HMASMTL 2 HMASMTL 2	R C				
OFBFTBL	HMASMIO HMASMIO	P D P D								
OPBFTB1 OPBFTB2 OPBFTB3	HMASMIO	PD								
PBLDL	HMASMDS	U R P D	HMASMDS1 HMASMIO1	_ 6	HMASMEIS HMASMLC1	R	HMASMIO HMASMLID	R C	HMASMION HMASMPGC	R
	HMASMTMI HMASMTMI	D R	HMASMREJ HMASMTMS HMASMTPC	R R R	HMASMSEC HMASMTMW HMASMTPL	R R R	HMASMTCR HMASMTM2 HMASMTP2	R R R	HMASMTL 2 HMASMTM3 HMASMTRM	R
PBLEF	HMASMTS	B R P D	HMASMUPD	Ř				-		
OPBLEP1 OPBLEP2 OPBLKSI	HMASMIO HMASMDS	PD	HMASMIO	м	HMASMIOP	D				
OPBLKSI Opblksi	HMASMIO M_END									
PBNE	HMASMIO HMASMIO HMASMIO	PD	HMASMTL 2	С						
DPBOL DPBOVLY	HMASMIO HMASMIO	P D P D	HMASMTL2	ç						
DPBPAGA DPBPDS	OIMZAMH AAMZAMH	P D R R C	HMASMTL2 HMASMIOP HMASMTL2	D C						
DPBREFR DPBRENT DPBREUS	HMASMIO HMASMIO	P D P D	HMASMTL2 HMASMTL2	000						
OPBSCTR OPBSEPA	HMASMAA HMASMAA	R C R R	HMASMIOP HMASMIOP	D	HMASMTL2	C C				
DPBSSI DPBSTOR DPBS01	HMASMAA HMASMIO HMASMAA		HMASMTL 2	D R	HMASMTL 2	C				
DPBS02 DPBS03	HMASMAAI HMASMAA	R R R RW	HMASMTL2 HMASMTL2	R R R						
OPBS04	HMASMAA		HMASMTL 2				44000 454		P=PARAMET	

IOP_MAP_ - IOPBS04

SYMBOL USAGE MODULE ACCESS ACCESS MODULE ACCESS MODULE ACCESS MODULE ACCESS SYMBOL MODULE HMASMIOP D HMASMAAR HMASMAAR HMASMIOP D HMASMIOP D IOPBS04E IOPBS2EP IOPBS2NM IOPBTEST HMASMIOP D HMASMIOP D HMASMBUR F HMASMBUR F HMASMBUR F HMASMIO F HMASMIO F HMASMIO F HMASMIOD F HMASMIOD F HMASMIOD F HMASMIOD D HMASMIOD D HMASMIOP HMASMBUE HMASMBUE HMASMARI HMASMASM HMASMASM HMASMLCD C R C HMASMTM1 R HMASMTM2 IOPBUDEL IOPBUFAD HMASMAR3 HMASMCPY HMASMEIS HMASMIOP D HMASMIKD HMASMIND HMASMIND HMASMIND HMASMIND HMASMAR4 HMASMFPT HMASMLKI HMASMLKI HMASMTPC HMASMTPC HMASMUPI HMASMASI HMASMILE HMASMIVU HMASMICO HMASMIDO HMASMIDI HMASMIDI HMASMIDI , M M M 3333 PW W 7233333 HMASMDRV HMASMFXF HMASMLCP HMASMMSG HMASMTMD HMASMBUE HMASMBUE HMASMTM4 RМ N R HMASMTM3 IOPBUMOD **HMASMLCD** HMASMTM2 HMASMUCI HMASMLCD HMASMBUR HMASMTM4 HMASMTOP HMASMICI HMASMIOP D HMASMTM4 P
HMASMIDUE
HMASMBUE
HMASMBUE
HMASMTM3
HMASMTM4
HMASMTPH
HMASMIOP
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HMASMODI
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HMASMODI
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HMASMIDU R IOPBUNT IOPBUSMD EEEE R_WC HMASMIOP D HMASMTM2 W HMASMTM1 HMASMUC1 HMASMTM1 HMASMTM2 HMASMTM3 М TOPRUTYP W IOPBYP IOPBZERO IOPCDMAP c HMASMIOP D HMASMUC1 MС HMASMEIS D HMASMIOP D HMASMOP2 R HMASMOP2 R HMASMIO R HMASMID R HMASMID DR HMASMID DR HMASMID DR HMASMID R HMASMUCI R HMASMUCI R HMASMIOP D HMASMIO1 HMASMBUR HMASMION HMASMIKD HMASMIKD HMASMITPL HMASMITPL HMASMIRF IOPCDMAX HMASMCPL I HMASMDS1 HMASMIOP D HMASMDLE R HMASMEIS D C HMASMIO1 C HMASMSEC R IOPCDS С С C HMASMRDS HMASMTM1 HMASMTPR R С HMASMTRM HMASMIOP HMASMIOP HMASMIOP HMASMION HMASMION HMASMION HMASMIOP HMASMIOP HMASMIOP HMASMIOP HMASMIOP HMASMIOP HMASMIOP HMASMIOP HMASMIOP HMASMIOP HMASMIOP IOPCDSA IOPCDSAD IOPCDSD IOPCDSDR 'n С HMASMIOP D С OIMSAMH **HMASMION** D HMASMIO HMASMASI R HMASMASI R HMASMIOP D HMASMIMA R HMASMIKO H HMASMIO H HMASMASI R HMASMORV R HMASMORV R HMASMORV R HMASMIOP D HMASMRDS R C Ď HMASMCPY HMASMLKI HMASMDRV HMASMTL2 HMASMIO HMASMTM2 TOPCDSM С P IOPCHREP IOPCLOSA IOPCLOSE D `WC HMASMIOP D HMASMCIL HMASMEIS HMASMRCF HMASMCMP HMASMIO HMASMRDS HMASMUPD HMASMCOM HMASMIOP D HMASMREC HMASMUPI R С HMASMILI R
HMASMTL2 R
HMASMZAP R
HMASMEIS DR C
HMASMREJ R
HMASMCRD C
HMASMCPD WC P HMASMTMD HMASMIO HMASMXRF I HMASMDRV I HMASMIOP D HMASMIOP D HMASMLID HMASMPGC ASMICE L

HMASMICP L

HMASMICP L

HMASMICP L

HMASMICP L

HMASMICP L

IOPCQMAP H

HMASMICP L

HMASMICP IOPCLOSN HMASMIOP D HMASMLCD C IOPCONTR HMASMTL2 С HMASMTM1 HMASMIOP D HMASMLCC D HMASMIO1 R
HMASMION
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HMASMIOP C HMASMDSU HMASMIO1 HMASMUC3 HMASMRDS HMASMIOP D HMASMEIS D C R 0000 C R HMASMTBL D HMASMLCC R C RC HMASMIOP D HMASMRCD M HMASMCPL W HMASMEPT R HMASMIOP D HMASMSEC HMASMFPT HMASMTRM HMASMLCD HMASMIOP D HMASMASI HMASMTL2 HMASMIOP D HMASMTSB HMASMEKD HMASMSUP С HMASMTPL C HMASMUC1 WC HMASMION HMASMUPI HMASMIOP D M_C HMASMIO HMASMUPD HMASMIO HMASMIOP D HMASMIOP D W RW RWC HMASMIOP D W HMASMDLE F HMASMIO HMASMDLE HMASMIOP D `c ົພ HMASMRCD HMASMRJD R HMASMTPR C HMASMUC1 MC HMASMIOP D HMASMIO D HMASMIOP D HMASMBUR HMASMBUR HMASMIOD HMASMIOD HMASMIOD D HMASMSUB HMASMIOP HMASMIOP HMASMRCD HMASMCPY R HMASMTCL D D HMASMTPC D HMASMION R C HMASMTM1 R HMASMUC4 R R C R HMASMIOP D С HMASMUC1 HMASMUC1 R HMASMIOP D HMASMTM4 R HMASMIOP D ₽ WC HMASMIO1 HMASMUC1 HMASMTM1 R HMASMTM2 HMASMCPY HMASMIOP DHMASMIOP DHMASMCPY HMASMCPY HMASMCPY HMASMCPY HMASMCPY HMASMCPY HMASMCPY HMASMCPY SEE E HMASMIOP D HMASMIM4 WC HMASMIOP D HMASMLCD HMASMUC1 HMASMTM1 HMASMTMD HMASMLKD MC C IOPDLIND HMASMTM2 HMASMTM3 С HMASMIOP D HMASMTM4 HMASMIOP D HMASMRCD HMASMLCD D HMASMUC1 R HMASMRCD I HMASMTM1 HMASMTM2 IOPDLSYS С HMASMTM3 HMASMIOP D DEDEFINITION, REREAD, WEWRITE, CECOMPARE, EEEQUATE OPERAND, MEMACRO, ALABSOLUTE, PEPARAMETER

IOPBS04E - IOPDMOD

SYMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCES
IOPDND IOPDNTRY IOPDRMAP IOPDSDIR	HMASMIO HMASMIOP HMASMBUE HMASMIOP	R D DRW	HMASMION HMASMIO1 HMASMEIS HMASMLCP	R C R DRW	HMASMIOP HMASMLCD HMASMIO HMASMUC2	D R RWC	HMASMLID HMASMUC1 HMASMIOP	C P	HMASMLC1	D
COPDSID	HMASHMASH HMASSMASH HMASSMASH HMASSMASH HMASSMASH HMASSMASH HMASSMAS HMASSMAS HMASSMAS HMASSMAS HMASSMAS HMASSMAS HMASSMAS HMASSMAS HMASSMAS HMASSMAS HMASSMAS HMASSMAS HMASSMAS HMASSMAS HMASSMAS HMASSMAS HMASSMAS HMASSMASSMAS HMASSMASSMAS HMASSMASSMASSMASSMASSMASSMASSMASSMASSMAS	CEEEEEEE EEEEEE	HMASMARH HMASMASM HMASMASM HMASMASM HMASMASH HMASMASH HMASMASH HMASMASMASM HMASMASMASM HMASMASM HMASMASM HMASMASM HMASMASM HMASMASM HMASMASM HMASMASM HMASMASM HMASMASM HMASMASM HMASMASM HMASMASM HMASMASM HMASMA	EEEEEEEE GEEEEE.	HMASMAP2 HMASMBUE HMASMUPI HMASMDSI HMASMIDU HMASMIDU HMASMICU HMASMICO	EEEEEEEEE NEEE	HMAASSMITTME THE HMAASSMITTME TO THE TO THE HMAASSMITTME TO THE HMAASSMITTME TO THE THE TO THE THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE TO THE	NO SEEFEFFEFF	HMASMAR4 HMASMCPY HMASMFPT HMASMFPT HMASMICP HMASMICP HMASMICP HMASMICP HMASMICP HMASMICP HMASMICH HMASMICH HMASMICH HMASMICH HMASMICH HMASMICH HMASMICH HMASMICH HMASMICH	SEEE SEEE
OPDSID_C		~	HIRSHOPI	~	HILASIIARI	•	HILASITEAP	-		
OPDSID_C		_								
OPDSID_C	HMASMIOP	С								
OPDSID_E OPDSMAX OPDSN OPDSN_M OPDSN_M	HMASMIOP HMASMCPY HMASMALC HMASMLKI HMASMIOP	D CC C	HMASMIOP HMASMCIL HMASMRCD	D W	HMASMUC1 HMASMCPI HMASMRJD	R W W	HMASMIO HMASMUPD	R	HMASMIOP	D
OPDSPFX OPDSPRM OPDSRC OPDSSEC	HMASMIOP HMASMIOP HMASMIOP HMASMIO HMASMIOP	D 6	HMASMLCP HMASMLCP HMASMIOP HMASMLCP	R C R D	HMASMREC HMASMUC2 HMASMRCD HMASMUC2	DR RWC W RW	HMASMUC2	R		
OPDSSPC OPDSYS	HMASMIOP HMASMCPY HMASMTM3 HMASMIOP	D WC	HMASMREC HMASMIOP HMASMTM4 HMASMRCD	R R W	HMASMUC2 HMASMLCD HMASMUC1	D R	HMASMTM1	R	HMASMTM2	R
OPDYNDT	HMASMCPL HMASMSUP HMASMTSB HMASMIOP	D MC	HMASMF PT HMASMTCR HMASMUC1 HMASMR JD	р В 00	HMASMIO HMASMIDI HMASMXRF	ooo	HMASMIOP HMASMTMD	С	HMASMIO1 HMASMTPR	C
OPEND OPENTNM OPENTNT	HMASMIOP HMASMAR3 HMASMIOP	D P	HMASMIOP HMASMMPV	D _R	HMASMTEC HMASMTSB	R R	HMASMTSB	С	HMASMUC1	R
OPENTST OPEOF	HMASMFPT HMASMBUE HMASMLCD HMASMLCD HMASMTPL HMASMXRF	R CCCCCC	HMASMIOP HMASMBUR HMASMFXF HMASMLC1 HMASMTPR HMASMTPR HMASMZAP	000000	HMASMTEC HMASMCPY HMASMIO HMASMLID HMASMTD1 HMASMTP2		HMASMTPL HMASMCRD HMASMIOP HMASMLKI HMASMTMD HMASMUC1	R C CCC	HMASMTSB HMASMDLE HMASMLCC HMASMLOG HMASMTMW HMASMUC3	RR
OPEOFNT OPEOLST	HMASMIOP HMASMCPL HMASMCPL HMASMIO HMASMIO HMASMIO HMASMTID HMASMTID HMASMTID HMASMITM HMASMUC4	CC C C	HMASMAR3 HMASMCPY HMASMIPP HMASMIKD HMASMIKC HMASMTEC HMASMTM4 HMASMTSB HMASMTSB	RRR RRRRRR	HMASMASM HMASMFVL HMASMFVL HMASMIOI HMASMSEC HMASMSEC HMASMTPC HMASMTPC HMASMUCI	0 0 0 0 RRRRRRRRR	HMASMBUE HMASMDLE HMASMFXF HMASMLCC HMASMSUP HMASMSUP HMASMTPL HMASMUC2		HMASMBUR HMASMIDU HMASMICO HMASMICC HMASMTEC HMASMTEC HMASMTP2 HMASMUC3	RRRRRRRR D
OPEOLST_	HMASMIOP	С								
OPEOLST_	CN_END HMASMIOP HMASMCPL HMASMRCC HMASMTMS	W	HMASMFPT HMASMRCD HMASMTPL	M C	HMASMFXF HMASMREC HMASMTPR	ccc	HMASMIOP HMASMSEC HMASMTRM	D W _C	HMASMLC1 HMASMTCR HMASMTSB	CCC
OPEXC	HMASMUC1 HMASMCPY	R C	HMASMĪO	R	HMASMIOP	_	HMASMLKD	c	HMASMTM1	R
OPFIDNM OPFIDNT	HMASMUPD HMASMFPT HMASMIOP	D C	HMASMIOP	D	HMASMTEC	R				
OPFIDST OPFLF OPFLGS2 OPFLGS3	HMASMIOP HMASMIOP HMASMIOP HMASMIOP	D D	HMASMTEC HMASMREC	MC C	HMASMTEC	С	HMASMTPA	С	HMASMTPL	С
OPFLGS5 OPFLGS7 OPFMD	HMASMFXF HMASMIOP HMASMCRW HMASMLCC	D.R.	HMASMIOP HMASMIO HMASMLID	D P C	HMASMION HMASMPGC	R C	HMASMIOP HMASMREJ	D _R	HMASMIO1 HMASMTP2	R C
OPFMID	HMASMUC3 HMASMAAR HMASMLCD HMASMTM2	R R W	HMASMASM HMASMLKD HMASMTM3	2 2 3 3	HMASMCPY HMASMTID HMASMTM4	R C	HMASMIDU HMASMTMD HMASMTRM	WC R C R	HMASMIOP HMASMTM1 HMASMUC1	D WC RWC
OPFMIDE OPFMST OPFREE OPFUNCT	HMASMIOP HMASMIOP HMASMAR1 HMASMAR4 HMASMCIL HMASMCPY	DEEE	HMASMTM1 HMASMDR2 HMASMALC HMASMASI HMASMCMP HMASMCRD	3 C 333	HMASMUCI HMASMEIS HMASMARI HMASMASM HMASMCOM HMASMCRW	3 C 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	HMASMIO HMASMAP2 HMASMBUE HMASMCPI HMASMDLE	C 3333	HMASMIOP HMASMAR3 HMASMBUR HMASMCPL HMASMDRV	EEE
	HMASMDR1 HMASMFPT HMASMION HMASMLCP HMASMLOG	33 33 C C C C C C C C C C C C C C C C C	HMASMDR2 HMASMFVL HMASMIOP HMASMMSG HMASMMSG HMASMPCL	33 333 R 3333	HMASMDSU HMASMFXF HMASMIO1 HMASMLID HMASMPGC HMASMRDS	33 C 3 3 3 3	HMASMDS1 HMASMIDU HMASMLKD HMASMRCC HMASMRCC HMASMTBL	R B B B B B B B B B B B B B B B B B B B	HMASMEIS HMASMIO HMASMLCD HMASMLKI HMASMRCD HMASMREJ HMASMTCR	3333333
	HMASMRJD HMASMTD1 HMASMTMW	M M M	HMASMSEC HMASMTL2 HMASMTM1	M M	HMASMSUP HMASMTMD HMASMTM2	₩ ₩ ₩	HMASMIBL HMASMIMJ HMASMIM3	W W	HMASMTMS HMASMTM4	W W

IOPDND - IOPFUNCT

YMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	AÇCESS
OPFUNCT	HMASMTPA HMASMTRM	ы	HMASMTPC HMASMTSB	W	HMASMTPL HMASMUC1	W	HMASMTPR HMASMUC2	M M	HMASMTP2	W
OPFUNCT_	HMASMUC4	W	HMASMUPD	W	HMASMUPI	W	HMASMXRF	W	HMASMZAP	W
DPFUNCT_	HMASMIOP CN END	С								
PFUNCT_	HMASMIOP	D								
PFUNCT_	HMASMIOP END	С								
PGETN	HMASMEIS	B_ c	HMASMIO	_ c	HMASMION	_ c	HMASMIOP	D_	HMASMLC1	R
	HMASMLID HMASMTPR	R R	HMASMPGC HMASMXRF	R	HMASMREJ	R	HMASMTD1	R	HMASMTPL	R
PGETNC PGOOD	HMASMEIS HMASMAAR HMASMBUR	R C	HMASMIO HMASMAR3 HMASMCIL	CCC	HMASMION HMASMASI HMASMCMP	CCC	HMASMIOP HMASMASM HMASMCOM	С	HMASMBUE HMASMCPI	c
	HMASMCPL HMASMDR1	R C	HMASMCPY HMASMDSU	₽ C	HMASMCRW HMASMDS1	₽ Č	HMASMDLE HMASMEIS	R C R C	HMASMDRV HMASMFPT	R Č
	HMASMFXF HMASMLCC	С	HMASMIDU HMASMLCD	R C	HMASMIO HMASMLCP	₽ C	HMASMION HMASMLC1	Ř C	HMASMIOP HMASMLID	Рс
	HMASMLKD HMASMRCC	C C C C	HMASMLKI HMASMRCD	c	HMASMLOG HMASMRCF	R C R C	HMASMMSG HMASMRCL	R C	HMASMPGC HMASMRDS	R C
	HMASMREC HMASMTCR	С	HMASMREJ HMASMTL2	R C	HMASMSEC HMASMTMD	R C	HMASMSUP HMASMTMJ	C	HMASMTB L HMASMTMS	ç
	HMASMTMW HMASMTPC	R C	HMASMTM1 HMASMTPL	R C	HMASMTM2 HMASMTP2	R C	HMASMTM3 HMASMTRM	C	HMASMTM4 HMASMUC1	R C
	HMASMUC2 HMASMXRF	R C	HMASMUC3 HMASMZAP	R C R C	HMASMUC4	R C	HMASMUPD HMASMIOP	RC	HMASMUPI HMASMLOG	R C R
PHLDS	HMASMCRD HMASMMSG HMASMION	R R C	HMASMDRV HMASMIOP		HINASHIO	R C	HINASITIOP	U	HIMSHLOG	*
PICDLB	HMASMION HMASMIOP	ŘČ	HMASMIOP							
PICEOF	HMASMION HMASMION	R C	HMASMIOP HMASMIOP	D						
PICMAC	HMASMION HMASMION	R C R C	HMASMIOP HMASMIOP	D						
PICNRM	HMASMIOP HMASMION	R C	HMASMIOP	D						
PICSRC PICSR3	HMASMION HMASMIOP	R C R C	HMASMIOP HMASMIOP							
PICSYS PINAM PINAME	HMASMION HMASMEIS HMASMIO	RM RM	HMASMIO HMASMION	P _B W	HMASMION HMASMIOP	_D ₹W	HMASMIOP HMASMLC1	D C		
PINAM2	HMASMION HMASMION	РW PW	HMASMIOP HMASMIOP	D D		-		•		
PINAM3_		D		-						
PINAM3_	HMASMIOP	С								
PINAM3_	HMASMIOP	D								
PINAM3_	HMASMIOP	_R C	HMASMEIS	D C	HMASMIO	С	HMASMIOP	_		
PINIT PIOERR	HMASMDR1 HMASMASI HMASMIO	Ř R C	HMASMBUR HMASMIOP	R	HMASMDSU HMASML KD	ŖČ	HMASMDS1 HMASMMSG	R C	HMASMEIS HMASMTBL	R R
PIPTF3	HMASMTL2 HMASMIOP	Ř Č	HMASMUC1	Č C	HMASMUC4	Ĉ С	HMASMUPD	Ĉ	macritise.	
PIQCSR	HMASMION HMASMION	R C	HMASMIOP HMASMIOP	D D						
PIQFMD	HMASMION HMASMFPT	D C	HMASMIOP HMASMIOP	D	HMASMPGC	С				
PIRQNT	HMASMIOP HMASMIOP	D	HMASMUC1	MC						
PIRQST PISASM PISDLB	HMASMIOP HMASMION HMASMION	P C	HMASMIOP HMASMIOP	D						
PISDND PISEQ3	HMASMION HMASMION	Ř Č RW	HMASMIOP HMASMIOP	Ď						
PISLMD	HMASMION HMASMION	R C	HMASMIOP HMASMIOP	Ď						
PISMOD	HMASMION HMASMIOP	R C	HMASMIOP	D						
PISSMD	HMASMION HMASMION	R C	HMASMIOP HMASMIOP	D						
PISSYS	HMASMION	R C R C	HMASMIOP	D						
PITSYS PITYP PITYP_C	HMASMION HMASMION	RC	HMASMIOP HMASMIOP	D	HMASMPGC	С				
PITYP_C	HMASMIOP	С								
PITYP_C	HMASMIOP	D								
PITYP_E	HMASMIOP ND	С								
PITYP2	HMASMIOP HMASMION	D MC	HMASMIOP	D						
PITYP2_	HMASMIOP	С								
PITYP3	HMASMIOP HMASMION	D WC	HMASMIOP	D						
PIWASM	HMASMION HMASMION	R C	HMASMIOP HMASMIOP	D						
PIWMCU	HMASMION HMASMION	R C	HMASMIOP HMASMIOP	D						
PIWSCR	HMASMION	R C R C	HMASMIOP HMASMIOP	D						
PIWXZP PIWZAP PJCLP	HMASMION HMASMION HMASMFPT	R C C	HMASMIOP HMASMIOP HMASMIOP	0 0 0	HMASMMPE	WC				
PJFCB PJFCBP	HMASMASI HMASMASI	R	HMASMIO HMASMIO	r c	HMASMION HMASMIOP	С	HMASMIOP HMASMUPI	D _R	HMASMUPI	R
PJFCSI	HMASMASI	Ŕ	HMASMIO	č	HMASMION	Č C	HMASMIOP		HMASMUPI	R

				SYMBO	L USAGE					
SYMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
IOPJFCSO IOPLINK	HMASMASI HMASMIOP	R D	HMASMIO HMASMLCD	C	HMASMION HMASMLKD	C W	HMASMIOP HMASMTL 2	D WC	HMASMTM1	W
IOPLIST IOPLMCC IOPLMCRC IOPLMCRM IOPLMCRN	HMASMUC1 HMASMCRD HMASMIOP HMASMIOP HMASMIOP HMASMIOP	R D D D D	HMASMDRV HMASMLCD HMASMLCD HMASMLCD HMASMLCD	MC CC	HMASMDSU HMASMLKD HMASMLKD HMASMLKD HMASMLKD	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	HMASMIOP	D	HMASMMSG	R
IOPLMCTL IOPLMD	HMASMLKD HMASMBUE HMASMION HMASMLKI	W C R R	HMASMBUR HMASMIOP HMASMTL2	R C	HMASMCPY HMASMLCD HMASMTM1	R C	HMASMDLE HMASMLID HMASMUC1	R C R	HMASMIO HMASMLKD HMASMUC4	C R R
IOPLMDFX	HMASMXRF HMASMCPY	R C	HMASMIOP	D	HMASMLCD	R	HMASMLKD	R	HMASMTM1	RW
IOPLMDF1 IOPLMDF2 IOPLMDF3 IOPLMDF4	HMASMUC1 HMASMIOP HMASMIOP HMASMIOP	R D D D	HMASMLKD HMASMLKD HMASMLKD HMASMLKD	0000 0000 0000 0000	HMASMTL 2 HMASMTL 2 HMASMTL 2 HMASMTL 2 HMASMTL 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	HMASMTM1 HMASMTM1	MC MC		
IOPLMDF5 IOPLMDLC IOPLMDL1 IOPLMDL2	HMASMIOP HMASMIOP HMASMIOP	R D	HMASMLKD HMASMIOP		HMASMLKD	Ř	HMASMTM1	R	HMASMUC1	R
IOPLMDND	HMASMCPY HMASMTM1	RWC W	HMASMDLE HMASMUC1	RWC	HMASMIOP	D	HMASMLKD	RWC	HMASMTL2	R
IOPLMDNT IOPLMIND	HMASMCPY HMASMCPY HMASMTM1	RW WC W	HMASMIOP HMASMDLE	С	HMASMLKD HMASMIOP	D	HMASMTL 2 HMASMLKD	RWC	HMASMTM1 HMASMTL2	RW C
IOPLMODS IOPLMSYS	HMASMIOP HMASMBUR HMASMLKD HMASMCPY	D R W C	HMASMCPY HMASMTMD HMASMDLE	R C	HMASMDLE HMASMTM1 HMASMIOP	R RWC D	HMASMIOP HMASMUC1 HMASMLCD	D P	HMASMLCD HMASMXRF HMASMLKD	D R R C
IOPLMSTS	HMASMTL2 HMASMCPY	, c	HMASMTM1 HMASMIOP	R	HMASMUC1 HMASMLCD	ĬR P		P	HMASMUC1	R
IOPLOC	HMASMAAR HMASMBUR HMASMDR1 HMASMION	R R R	HMASMAR3 HMASMCPL HMASMDS1 HMASMIOP	Ř R R D	HMASMASI HMASMCPY HMASMEIS HMASMIO1	R C C	HMASMASM HMASMCRW HMASMIDU HMASMLCC	: R R R R	HMASMBUE HMASMDLE HMASMIO HMASMLKD HMASMSUP	R C R
	HMASMRCD HMASMTD1 HMASMTM2	R R	HMASMREC HMASMTL 2 HMASMTM3	R R R	HMASMREJ HMASMTMD HMASMTM4	R R R	HMASMSEC HMASMTMJ HMASMTPA	R R R	HMASMTM1 HMASMTPL HMASMUC2	R R R
IOPLRF	HMASMTP2 HMASMUC3 HMASMCIL HMASMRCD	R R R M	HMASMTPM HMASMUC4 HMASMCPI HMASMRJD	R R R	HMASMTSB HMASMXRF HMASMIO HMASMTMJ	Ř C R	HMASMUC1 HMASMZAP HMASMIOP HMASMUPD	ř C	HMASMUCZ	R
IOPLRFP IOPLSMAX IOPLSYS	HMASMEPT HMASMCPY HMASMCPY	" C ''	HMASMIOP HMASMIOP HMASMIOP	D D D	HMASMTDD HMASMLCD	R D	HMASMUC1 HMASMLKD	R RWC	HMASMTL2	R C
IOPESTS	HMASMTM1 HMASMAAR	, Ñ	HMASMUC1 HMASMASM	Ř R	HMASMBUE	С	HMASMBUR	R C	HMASMDLE	R
IOPMACFX	HMASMIDU HMASMLID HMASMUC1 HMASMIOP	R C R C D	HMASMION HMASMTID HMASMUC2 HMASMIO1	R C C R R	HMASMIOP HMASMTMD HMASMUC4 HMASMTM2 HMASMLCD	D C R W	HMASMIO1 HMASMTM2 HMASMXRF HMASMTM4 HMASMUC1	C C 3 R	HMASMLCD HMASMTRM	R
IOPMACID IOPMACIC IOPMACIC IOPMACII	HMASMAAR HMASMCOM HMASMASM HMASMIOP	R R D	HMASMIOP HMASMIO HMASMIOP	DR C	HMASMIOP HMASMTM2	D R	HMASMTM4	R	HMASMUC1	R
IOPMACL2 IOPMACL3 IOPMACND	HMASMIOP HMASMIOP HMASMAAR HMASMTMD	D R R	HMASMASM HMASMTM2	RW RW	HMASMBUR HMASMTM4	R C	HMASMIOP HMASMTRM	D _R	HMASMIO1 HMASMUC1	R W
IOPMACNT IOPMACST	HMASMXRF HMASMASM HMASMIOP	R D	HMASMIOP	D	HMASMTM2	W	HMASMTM4	W		
IOPMACVR IOPMAPF IOPMASMS	HMASMIOP HMASMIOP HMASMASM	D R C	HMASMBUR	С	HMASMIOP	D	HMASMLCD	D	HMASMTM2	С
IOPMCASI	HMASMUC1 HMASMASM	R	HMASMXRF		HMASMIOP	D	HMASMTM2	R	HMASMTM3	R
IOPMCASM	HMASMTM4 HMASMASM HMASMTM2	RWC	HMASMUC1 HMASMUC1	R R R	HMASMIOP HMASMXRF	D _R	HMASMLCD	D	HMASMTMD	R
IOPMCCMT IOPMCDLB	HMASMIOP HMASMASM HMASMIRM	D W _	HMASMLCD HMASMIOP HMASMUC1	PWC	HMASMLCD	R C	HMASMTMD	R	HMASMTM2	RWC
IOPMCEND IOPMCENT IOPMCENT	HMASMIOP HMASMIOP HMASMBUR	D R	HMASMLCD HMASMIDU		HMASMIOP	R D	HMASMI01	R	HMASMLCD	Р
IOPMCIND	HMASMTID HMASMAAR	Ř C	HMASMUC1 HMASMASM	R WC	HMASMBUR	С	HMASMIOP	D	HMASMTMD	С
IOPMCLNG IOPMCMAL IOPMCR	HMASMXRF HMASMASM HMASMIOP HMASMIO	ີ້ເ _ຫ	HMASMIOP HMASMLCD HMASMION		HMASMTM2 HMASMTMD HMASMIOP	w _C	HMASMTM4 HMASMTRM HMASMTMD	W _C	HMASMUC1 HMASMUC1 HMASMTMS	W R R
IOPMCS	HMASMTMW HMASMIO HMASMRCC	R R R	HMASMION HMASMRCD	R C R	HMASMIOP	R	HMASMLCP HMASMRJD HMASMUC2	R C	HMASMLID HMASMTMD	R C
IOPMCSYS	HMASMTMJ HMASMASM HMASMTM4	M	HMASMIOP HMASMUC1	D RWC	HMASMTSB HMASMLCD	R C	HMASMTMD	Ř	HMASMTM2	RW
IOPMCTYP IOPMCU	HMASMIOP HMASMIO HMASMTMW	D C	HMASMTM2 HMASMION HMASMUPI	R C	HMASMTRM HMASMIOP	D C	HMASMTMD	R	HMASMTMS	R
IOPMDC IOPMDDAL IOPMDDAL	HMASMIOP HMASMIOP HMASMIOP HMASMIOP	DDDDD	HMASMLCD HMASMLCD HMASMLCD	D	HMASMTMD	С	HMASMUC1	R		
IOPMDEND IOPMDIND	HMASMIOP HMASMBUR HMASMIMD	D C	HMASMCPY HMASMTM1	MC MC	HMASMDLE HMASMXRF	C	HMASMIOP	D	HMASMLKD	RW
IOPMDLEP IOPMDLMD	HMASMIOP HMASMBUR HMASMLKD HMASMIOP	D C	HMASMCPY HMASMTM1 HMASMLCD	R C R C	HMASMDLE HMASMUC1 HMASMTMD	R C	HMASMIOP HMASMXRF HMASMUC1	D C	HMASML CD	D
IOPMEM IOPMNE	HMASMASI HMASMIOP	R	HMASMDLE	ॅ́	HMASMIO	R ~	HMASMIOP		HMASMUPD	P
D=DEFINIT	ION, R=REA	AD, W=WRI	TE, C=COM	PARE, E=E	QUATE OPE	RAND, M=M	IACRO, A=A	SOLUTE,	P=PARAMET!	R

IOPJFCSO - IOPMNE

				SYMBO	L USAGE					
SYMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
IOPMNTRY	HMASMBUR HMASMTID		HMASMIDU HMASMUC1	R R	HMASMIOP	D	HMASMI01	R	HMASMLCD	P
IOPMOD	HMASMBUE HMASMIDU HMASMLCD HMASMTMS HMASMUC1	C R C	HMASMBUR HMASMIO HMASMLID HMASMTMW HMASMUC4	CCC RRR	HMASMCOM HMASMION HMASMLKD HMASMTM1 HMASMXRF	C C	HMASMCPY HMASMIOP HMASMTID HMASMTM4	D C	HMASMDLE HMASMIO1 HMASMTMD HMASMTRM	R C R C
IOPMODDR IOPMODFX IOPMODF1 IOPMODF2 IOPMODF3	HMASMTM1 HMASMIOP HMASMIOP HMASMIOP HMASMIOP	W	HMASMIO1 HMASMTM1 HMASMTM1 HMASMTM1	R 3 3 3 3 2 3	HMASMTM1	ш				
IOPMODF4 IOPMODID IOPMODIC IOPMODII	HMASMIOP HMASMIOP HMASMCPY HMASMTM3 HMASMIOP	D R R	HMASMTM1 HMASMLCD HMASMIOP HMASMUC1	RW D R	HMASMTM1 HMASMLKD	C R	HMASMTM2 HMASMTM1	C R	HMASMTM2	R
IOPMOD L2 IOPMOD NO	HMASMIOP HMASMBUR HMASMLKD HMASMXRF	R C RWC	HMASMCPY HMASMTMD	RW R	HMASMDLE HMASMTM1	R RW	HMASMIOP HMASMTM2	D _R	HMASMIO1 HMASMUC1	R
IOPMODNT IOPMODST IOPMODVR IOPMOVLY IOPMREFR IOPMREFR IOPMREUS	HMASMCPY HMASMIOP HMASMIOP HMASMIOP HMASMIOP HMASMIOP HMASMIOP HMASMIOP	RW DDDDDDDDDDDDDD	HMASMIOP	D	HMASMLKD	ы				
IOPMSCTR IOPMTS IOPMTSD	HMASMIOP HMASMAAR HMASMIO1 HMASMIOP	R C	HMASMDSU HMASMRDS HMASMRDS	R C	HMASMIO HMASMTM2	R	HMASMION HMASMUC2	C R	HMASMIOP HMASMUPI	D _R
IOPMTSNP IOPNAME	HMASMOSI HMASMAAR HMASMEIS HMASMIOP HMASMIOP HMASMICO HMASMICO HMASMICO HMASMICO HMASMICO HMASMICO	R 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	HMASMIOP HMASMMCPXF HMASSMLKDC HMASSMLKDC HMASSMLKDC HMASSMTPC HMASSMTPC HMASSMTPC HMASSMUCH	T CEEEEEE EE	HMASMLCD HMASMASM HMASMIDU HMASMLCD HMASMLCH HMASMTLZ HMASMTLZ HMASMTLM HMASMTPR HMASMTPR HMASMUC3	A AN A A SEEEEE	HMASMUCI HMASMBUR HMASSMICO HMASSMIPD HMASSMIPD HMASSMIM HMASSMIM HMASSMITM HMASSMICA HMASSMICA	00 33 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	HMASMBUR HMASMION HMASMICI HMASMPGC HMASMTSEC HMASMTMJ HMASMTSB HMASMUPD	E E E E E E E E E E E E E E E E E E E
IOPNAM17	HMASMUPI HMASMAPI HMASMAPE HMASMAPE HMASMATEL HMASMATEL HMASMATEL HMASMATEL	RRR 33	HMASMXPF HMASMBUU HMASMMPH HMASMPCF HMASMTPA HMASMTRM HMASMTRM HMASMXRF	W M R	HMASMAP HMASMBUR HMASMION HMASMMPV HMASMTD1 HMASMTPC HMASMTSB	W C CC R WW R RW R	HMASMCPL HMASMIOP HMASMPGC HMASMTEC HMASMTEC HMASMUC1	D RW R RW M I	HMASMCRW HMASMLCC HMASMRCC HMASMSEC HMASMTPR HMASMUC2	U C M P D R W
IOPNCODE IOPNE IOPNOTED	HMASMIOP HMASMIELAR HMASMICAR HMASMICAR HMASMICAR HMASMICAR HMASMUCA	R 0 000	HMASMICD HMASMICD HMASMASI HMASMASI HMASMTD1 HMASMTM1	7 E E	HMASMIOP HMASMLKD HMASMIOP HMASMCPY HMASMREC HMASMTL2 HMASMTM2	טטטט צ	HMASMTL 2 HMASMDLE HMASMDLE HMASMSEC HMASMTMD HMASMTM3	E COOO	HMASMUC1 HMASMIDU HMASMSUP HMASMTMS HMASMTM4	A 0000
IOPNPRNM IOPNPRNT IOPNPRP IOPNPRST IOPNTCLS IOPNTFND	HMASMFPT HMASMIOP HMASMIOP HMASMIOP HMASMCPY HMASMASM	00	HMASMIOP HMASMUC1 HMASMIO HMASMBUE	WC R C	HMASMIOP HMASMBUR	D_ c	HMASMCPL	ç	HMASMCRW	_ c
	HMASMDSU HMASMLCC HMASMREJ HMASMTM3 HMASMTRM HMASMUPD	0000	HMASMEIS HMASMLC1 HMASMSUP HMASMTM4 HMASMTSB HMASMXPF	R 00000	HMASMFPT HMASMLID HMASMTMJ HMASMTPL HMASMUC1	R 0000	HMASMIO HMASMLKD HMASMTM1 HMASMTPR HMASMUC3	00000	HMASMIOP HMASMPGC HMASMTM2 HMASMTP2 HMASMUC4	D CCCC
IOPNTLVL	HMASMASM HMASMREC HMASMTM3 HMASMIOP	W W	HMASMBUE HMASMSEC HMASMTM4 HMASMTPL	M M M	HMASMCPY HMASMSUP HMASMUC1	<u> </u>	HMASMIOP HMASMTM1 HMASMUC2	D W W	HMASMLKD HMASMTM2	W
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IOPNTMAX_	HMASMIOP	D	HMASMTSB	R		_		_		_
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IOPOPEN IOPOPENN IOPOTYPE IOPOVLY	HMASMDSU HMASMTBL HMASMICP HMASMEIS HMASMIOP	D R	HMASMDS1 HMASMTD1 HMASMIO HMASMLCD	R R C	HMASMIO HMASMIPL HMASMIOP HMASMLKD	C R D W	HMASMIOP HMASMTPR HMASMTM1 HMASMTL2	D R W W	HMASMREC HMASMUC1	R WC
IOPPACID IOPPADDP IOPPAGA IOPPAPAR	HMASMCPL HMASMIOP HMASMIOP HMASMAR1	P D C	HMASMEPT HMASMLCD HMASMAR4	ОСС	HMASMIOP HMASMLKD HMASMFPT	D W _C	HMASMUCŽ HMASMTL 2 HMASMFXF	R C	HMASMUC1 HMASMIOP	D MC
IOPPAPID IOPPASM	HMASMMPH HMASMTPO HMASMCPL HMASMFPT	R P	HMASMPCL HMASMUC1 HMASMFPT HMASMFXF	R C	HMASMREC HMASMIOP HMASMIOP	D C	HMASMTMD HMASMUC2 HMASMSEC		HMASMTPL	c c
IOPPCMNT IOPPCNVL D=DEFINIT	HMASMUC1 HMASMEPT HMASMIOP	В	HMASMXRF HMASMIOP HMASMUC2 ITE, C=COM	W	QUATE OPE	RAND, M=N	MACRO, A=AI	SSOLUTE,	P=PARAMET	 ER

IOPMNTRY - IOPPCNVL

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IOPPDEL - IOPPTFND

DEDEFINITION, REREAD, WEWRITE, CECOMPARE, EEEQUATE OPERAND, MEMACRO, ASABSOLUTE, PEPARAMETER

YMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCES
OPPTFND	HMASMMPE HMASMTPL	RW R	HMASMREC HMASMTRM	RW	HMASMSEC HMASMTSB	w	HMASMSUP HMASMUC1	RWC RWC	HMASMTMD HMASMUC4	R
OPPTFNM OPPTFNT	HMASMXRF HMASMBUE HMASMBUE	R C R W	HMASMBUR HMASMIOP	, D	HMASMION HMASMLCD	RW RW	HMASMIOP HMASMREC		HMASMUC4	M
OPPTFS OPPTFVR OPPTIND	HMASMIOP HMASMIOP HMASMIOP	R D R	HMASMTSB HMASMXRF HMASMTEC HMASMIOP	R P	HMASMTPA HMASMREC	R RWC	HMASMTPL HMASMUC2	R C	HMASMUC 2	R
OPPTMAP OPPTMAX OPPTNTR	HMASMIOP HMASMIOP HMASMIOP	D D	HMASMIO1	R	HMASMLCP	P	HMASMREJ	R		
OPPTPEM OPPTPFX	HMASMDS1 HMASMFPT HMASMTEC	R R R	HMASMIOP HMASMIOP	D	HMASMLCP HMASMRCD	R C	HMASMUC2 HMASMREC	RW	HMASMREJ	R
OPPTR	HMAASSMHTHHAASSMHTHAASSMHTHHAASSMHTHHAASSMHTHHAASSMHTHHAASSMHTHHAASSMHTHAA	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	HMASMLKI HMASMMPI HMASMRCD HMASMTAD HMASMTACR HMASMTL2	P 333 33 33 33 33 33 33 33 33 33 33 33 3	HMASMCRW HMASMDSV HMASMLCP HMASMLOG HMASMRV HMASMRV HMASMRV HMASMRJD HMASMTAI HMASMTAI HMASMTAI HMASMTAI	222222 222 222 222 222 222 222 222 222	HMASMAPA HMASMCPI HMASMCDDI HMASMCDU HMASMICO HMASMICO HMASMMMSG HMASMMSG HMASMSG HMASMSG HMASMSG HMASMSG HMASMSG HMASMSD HMAS	000000000000000000000000000000000000000	MASSMED HAAASSMED HAAASSMED HAAASSMED HAAASSMED HAAASSMED HAAAASSMED HAAASSMED HAAAASSMED HAAASSMED HAAAASSMED HAAASSMED HA	333333 33 3 RRRRRR RRRRRR RRRRRR RRRRRR RRRRRR RRRR
OPPTREL OPPTRE	HMASMTMS HMASMTPS HMASMUC4 HMASMDP1 HMASMTL2		HMASMTMA HMASMTPA HMASMTP2 HMASMUPD HMASMIOP	W W	HMASMTM1 HMASMTPC HMASMUC1 HMASMUPI HMASMLCP	3 33 P	HMASMTM2 HMASMTPD HMASMUC2 HMASMXRF HMASMREC	DD RW DD RW DD RR	HMASMTM3 HMASMTPO HMASMUC3 HMASMZAP	DRW
OPPTR1 OPPTR2 OPPTR3	HMASMBUE HMASMUC3 HMASMBUR		HMASMBUR HMASMXRF	DRWC DRWC	OIMZAMH	DRW	HMASMLCC	DRW	HMASMLC1	DRW
OPPTR4	HMASMBUR HMASMASM HMASMIOP HMASMRJO HMASMRJO HMASMTPA	DRW C	HMASMCPL HMASMDSU HMASMIOI HMASMPCD HMASMTBL HMASMTPC	R C M	HMASMCPY HMASMDS1 HMASMLCP HMASMRDS HMASMTEC HMASMTPL	CC CC	HMASMCRD HMASMIO HMASMLID HMASMPEC HMASMTMD HMASMTSB	R R R R	HMASMDRV HMASMION HMASMREJ HMASMTMJ HMASMUC2	R CC RR
OPPTSD OPPTSDR	HMASMUPD HMASMIOP HMASMIO1		HMASMRDS	R	HMASMTBL					
OPPTSFX OPPTSND OPPTSNJ OPPTSNP OPPTSRL	HMASMIOP HMASMDR1 HMASMDS1 HMASMDS1 HMASMDR1	D R CCC	HMASMIOD HMASMIOP HMASMIOP HMASMIOP HMASMIOP	R D D D D	HMASMUC2 HMASMIO1 HMASMLCP HMASMLCP HMASMLCP	R CC	HMASMREC HMASMUC2 HMASMUC2 HMASMREC	2000 233 R	HMASMUC2	RW R C
OPPTSVR OPPTSYS OPPTYPE	HMASMIOP HMASMIOP HMASMBUE HMASMMPH	DD 33	HMASMUC2 HMASMSUB HMASMCPL HMASMMPV	R W C	HMASMFPT HMASMREC	R C	HMASMIOP HMASMREJ	D _{R C}	HMASMMPE HMASMSEC	w ^C
OPPTYPE_C	HMASMIOP	R C	HMASMTEC	R	HMASMTPL	Č M	HMASMUC1	WC	HMASMXRF	R
OPPTYPE_C Oppunch	HMASMIOP HMASMIOP	D D								
OPPUSER OPPVER	HMASMARI HMASMMPH HMASMTPO HMASMFPT	P F		R CCC	HMASMFPT HMASMREC	ç	HMASMFXF HMASMTMD		HMASMIOP P HMASMTPL P HMASMSEC	С
DPPXPD	HMASMAR3 HMASMSEC	, c	HMASMF PT HMASMTRM	D ^R C	HMASMMPV HMASMXRF HMASMFXF HMASMUC1	R CCC	HMASMREC HMASMIDU HMASMXRF	R R	HMASMIOP	D
OPPZAP OPQFEND	HMASMAR3 HMASMMPE HMASMUC1 HMASMIOP	R C	HMASMFPT HMASMREC HMASMXRF	R C	HMASMFXF HMASMSEC	₽ C	HMASMIDU HMASMTMD	e C	HMASMIOP HMASMTRM	С
POFMLS	HMASMCRW HMASMCRW HMASMTP2	R W R	HMASMIOP HMASMIOP HMASMUC3	D MC	HMASMIO1 HMASMIO1	R	HMASMUC3 HMASMLCC	R R	HMASMPGC	RWC
PQFMNM PQFMNT PQFMSM PQFMTP	HMASMIOP HMASMCRW HMASMCRW HMASMIOP HMASMIOP	D W	HMASMLCC HMASMIOP HMASMIOP HMASMPGC	D C	HMASMPGC HMASMUC3 HMASMPGC HMASMTP2	RA CC CC	HMASMTP2	R I	HMASMUC3	R R
PQFMVR PQSMFM PQSMIF PQSMLS	HMASMCRW HMASMCRW HMASMCRW	ั ผ	HMASMIOP HMASMIOP	D	HMASMLCC	R C	HMASMTP2	C RW	HMASMUC3	RW
PQSMND PQSMNM PQSMNT PQSMRQ PQSMTP	HMASMCRW HMASMCRW HMASMCRW HMASMCRW HMASMCRW	E E E E E E	HMASMIOP HMASMIOP HMASMIOP HMASMIOP HMASMIOP	00000	HMASMLCC HMASMLCC HMASMUC3 HMASMUC3 HMASMUC3	E 2 2 3	HMASMTP2 HMASMTP2	r C	HMASMUC3 HMASMUC3	R W
OPRÉAD	HMASMBUE HMASMEIS HMASMLKD HMASMTP2	R R R	HMASMBUR HMASMIO HMASMLKI HMASMUC1	R C	HMASMCPY HMASMLOP HMASMLOG HMASMUC3	D R	HMASMCRD HMASMLCC HMASMRDS HMASMZAP	R R R	HMASMDLE HMASMLCD HMASMTMW	R R R
PRECT	HMASMFPT HMASMFPT	RWC P	HMASMIOP	D	HMASMRCC	W W	HMASMSEC	W H	HMASMTEC HMASMTEC	R R
PREFR PREG PREGEN PRENT	HMASMIO HMASMCPL HMASMIOP	D R W D D	HMASMLCD HMASMLCD HMASMLCD	0 00	HMASMLKD HMASMFXF HMASMLKD	w C	HMASMTL2 HMASMIOP HMASMTL2	D W	HMASMUC1 HMASMUC1 HMASMUC1	MC AC
OPREQNM OPREQNT OPREQP		D D	HMASMIOP HMASMUC1	WC WC						

SYMBOL USAGE SYMBOL MODULE ACCESS MODULE MODULE ACCESS MODULE ACCESS MODULE ACCESS ACCESS HMASMASM HMASMASM HMASMCOM HMASMCSW HMASMCSVF HMASMLCCD HMASMLCCD HMASMLCCD HMASMLCCD HMASMLCCD HMASMTRM HMASMAAR HMASMASI HMASMCMP HMASMCRD CCCCCC IOPRES IOPRETRN WC HMASMADUE HMASMCDLE HMASMCDLE HMASMIDCD HMASMILKO HMASMLKCI HMASMICKI HMASMICKI HMASMICKI HMASMICKI HMASMICKI HMASMICKI HMASSMEIO CF HMASSMEIO CF HMASSMEIO CF HMASSMEIO CF HMASSMEIO CF HMASSME CF H HMASMAR4 HMASMCPI HMASMCPI HMASMFPT HMASMICI HMASMICI HMASMICI HMASMICI HMASMICI HMASMICI HMASMITHI HMASMI RRRW 00000000000 000 HMASMCRD HMASMFVL HMASMIOP HMASMLID HMASMPGC HMASMRDS W C D RWCCCC 3 33 3 3 33 3 3 33 3 HMASMSUP HMASMTMD HMASMTM2 HMASMTPL HMASMUC1 HMASMUPI HMASMTBL HMASMTMJ HMASMTM3 HMASMTPR HMASMUC2 HMASMXRF \$ RRRRR Ř C RWC HMASMTCR HMASMTMS HMASMTM4 HMASMTP2 HMASMUC3 HMASMZAP RR RWU HMASMTPA HMASMTRM CC IOPRETRN_CN HMASMIOP c IOPRETRN_CN_END
IOPRETRN_COM
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HMASMIOP C IOPRETRN_END
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IOPRES - IOPSRDLB

D-DEFINITION, R-READ, W-WRITE, C-COMPARE, E-EQUATE OPERAND, M-MACRO, A-ABSOLUTE, P-PARAMETER

			SYMB	OL USAGE		
SYMBOL	MODULE	ACCESS	MODULE ACCESS	MODULE ACCESS	MODULE ACCESS	MODULE ACCESS
IOPSRDTA IOPSREL IOPSREND IOPSRIND	HMASMIOP HMASMDS1 HMASMIOP HMASMIOP	R	HMASMLCD D HMASMIOP D	HMASMLCD R	HMASMUC1 RWC	
IOPSRLNG IOPSRLNM IOPSRLNT	HMASMIOP HMASMFPT HMASMIOP	D D	W EMTMRAMH D QOIMRAMH	HMASMTPL C		
IOPSRLST IOPSRSYS	HMASMIOP HMASMUC1	D W	HMASMLCD R C	HMASMTMD R	HMASMTM3 RW	HMASMTM4 R
IOPSSCND IOPSTCMP IOPSTCMP_	HMASMIOP	D ^R	HMASMIOP D			
IOPSTCMP_ IOPSTCRR	M_END HMASMIOP HMASMEIS	D R C	HMASMIO R	HMASMIOP D		
IOPSTOWD	HMASMEIS HMASMTM1 HMASMÄÄR	D C R R	HMASMIO C HMASMBUR R	HMASMION C HMASMCOM R	HMASMIOP D HMASMCPL R	HMASMRCF C HMASMDLE R
	HMASMDS1 HMASMPGC HMASMTMD HMASMUC4	C R R R	HMASMEIS D C HMASMRCD R HMASMTMS R	HMASMIO C HMASMPCF R HMASMUC1 R	HMASMION C HMASMRJD R HMASMUC2 R C	HMASMIOP D HMASMSUP R HMASMUC3 R
IOPSTOWR	HMASMASM HMASMCRW HMASMIOP HMASMRCD HMASMSUP	R	HMASMBUE R HMASMEIS D C HMASMIO1 C HMASMRCF C HMASMTMW R	HMASMBUR R HMASMIDU R HMASMLKD R HMASMREC R HMASMTM1 R	HMASMCPL R HMASMIO R C HMASMPGC R HMASMREJ R HMASMTM2 R	HMASMCPY R HMASMION C HMASMSCC R HMASMSEC R HMASMTM3 R
IOPSTS	HMASMTM4 HMASMAAR HMASMIOP HMASMUC2	R R	HMASMUCI R HMASMASI R HMASMIOI C HMASMUPI R	HMASMUCZ R HMASMDSU R HMASMRDS C	HMASMUC3 R HMASMIO C HMASMTM3 R	HMASMION C HMASMTM4 R
IOPSTSD IOPSTSNP IOPSUASM	HMASMIOP HMASMDS1 HMASMBUE		HMASMRDS R HMASMIOP D	HMASMLCD C HMASMFPT D	HMASMUC1 WC HMASMIOP D	HMASMUC4 C
IOPSUDLB IOPSULMD IOPSUMAC	HMASMBUE HMASMBUE HMASMBUE	R R R	HMASMBUR C HMASMBUR C HMASMBUR C HMASMBUR C	HMASMEPT D HMASMEPT D HMASMEPT D	HMASMIOP D HMASMIOP D HMASMIOP D	HMASMUC4 C HMASMUC4 C
IOPSUMOD IOPSUPNM IOPSUPNT	HMASMBUE HMASMFPT HMASMIOP	Ř D	HMASMBUR C HMASMIOP D	HMASMEPT D	HMASMIOP D	HMASMUC4 C HMASMUC4 C
IOPSUPP IOPSUPST IOPSUSEC	HMASMIOP HMASMIOP HMASMBUE	D	HMASMUC1 WC	HMASMFPT D	HMASMIOP D	HMASMUC4 C
IOPSYASM IOPSYASP	HMASMDS1 HMASMDS1 HMASMDS1	R C R C	HMASMIOP D HMASMIOP D HMASMIOP D	HMASMLCP HMASMLCP	P HMASMUC2 R P HMASMUC2 R P HMASMUC2 RW	mindilice C
IOPSYASR IOPSYASS IOPSYCOM	HMASMDS1 HMASMDS1	R C R C	HMASMIOP D HMASMIOP D	HMASMLCP HMASMLCP	P HMASMUCZ R P HMASMUCZ R	
IOPSYCOP IOPSYCOR IOPSYCOS	HMASMDS1 HMASMDS1 HMASMDS1	R C R C	HMASMIOP D HMASMIOP D HMASMIOP D	HMASMLÖP HMASMLÖP	P HMASMUCZ RW P HMASMUCZ R	
IOPSYCPP IOPSYCPR IOPSYCPS	HMASMDS1 HMASMDS1 HMASMDS1	R C C C	HMASMIOP D HMASMIOP D HMASMIOP D	HMASMLCP HMASMLCP	P HMASMUC2 R P HMASMUC2 RW P HMASMUC2 R	
IOPSYCPY IOPSYDL IOPSYEND	HMASMDS1 HMASMDR1 HMASMIOP		HMASMIOP D HMASMDR2 W	HMASMDS1 WC	P HMASMUC2 R HMASMIOP D	
IOPSYLKD IOPSYLKP IOPSYLKR	HMASMDS1 HMASMDS1 HMASMDS1	R CC R C	HMASMIOP D HMASMIOP D HMASMIOP D	HMASMLCP HMASMLCP	P HMASMUC2 R P HMASMUC2 R P HMASMUC2 RW	
IOPSYLKS IOPSYNG IOPSYNTR	HMASMDS1 HMASMDR2 HMASMIOP	R C D	HMASMIOP D HMASMDS1 C	HMASMLCP HMASMIOP D	P HMASMUC2 R	
IOPSYPLN IOPSYS	HMASMDS1 HMASMDR1 HMASMIOP	R C R D	HMASMIOP D HMASMDSU R HMASMIO1 C	HMASMLCP R C HMASMDS1 R HMASMLCD C	HMASMUC2 RW HMASMIO C HMASMLCP C	HMASMION R C
IOPSYSFX IOPSYSF1	HMASMREC HMASMIOP HMASMIOP	R D	HMASMREJ R HMASMIO1 R	HMASMUCI R	HMASMŪČ2 R Č	
IOPSYSID IOPSYSIB IOPSYSIC	HMASMDS1 HMASMDLE HMASMIOP	R R D	HMASMIOP D HMASMIOP D HMASMUC1 R	HMASMLCD R HMASMUC2 R	HMASMUC1 RWC	
IOPSYSL1 IOPSYSL2 IOPSYSND	HMASMIOP HMASMIOP HMASMIOP	D D	HMASMIO1 R	HMASMUC1 W		
IOPSYSNT IOPSYSPP	HMASMIOP HMASMDS1	D _R C	HMASMIOP D	HMASMLCP	P HMASMUC2 R P HMASMUC2 RW	
IOPSYSPR IOPSYSPS IOPSYSPT	HMASMDS1 HMASMDS1 HMASMIO	R Č	HMASMIOP D HMASMIOP D HMASMIOP D	HMASMLCP	P HMASMUCZ R	
IOPSYSTP IOPSYSTR IOPSYSUP	HMASMIOP HMASMIOP HMASMDS1	D _{R C}	HMASMIO1 R HMASMIOP D	HMASMLCP	P HMASMUC2 R	
IOPSYSVR IOPSYUPD IOPSYUPP	HMASMIOP HMASMDS1 HMASMDS1	R C R C	HMASMIOP D	HMASMLCP	P HMASMUC2 R P HMASMUC2 R	
IOPSYUPR IOPSYUPS IOPSYZAP	HMASMDS1 HMASMDS1 HMASMDS1	R C C	HMASMIOP D HMASMIOP D HMASMIOP D	HMASMLCP HMASMLCP	P HMASMUC2 RW P HMASMUC2 R P HMASMUC2 R	
IOPSYZPP IOPSYZPR IOPSYZPS	HMASMDS1 HMASMDS1 HMASMDS1	R C	HMASMIOP D HMASMIOP D HMASMIOP D	HMASMLCP HMASMLCP	P HMASMUC2 R P HMASMUC2 RW P HMASMUC2 R	
IOPTPSEQ IOPTTR IOPTXTDD	HMASMIO HMASMIO HMASMIO	RW P	HMASMIOP D	HMASMREC P HMASMLKI W	HMASMTL2 R	
IOPTYPE	HMASMAAR HMASMBUR HMASMDLE	RWC	HMASMAR3 W HMASMCOM W HMASMDR1 W	HMASMASI W HMASMCPL W HMASMDSU W	HMASMASM W HMASMCPY W HMASMDS1 W	HMASMBUE WC HMASMCRW W HMASMEIS R
	HMASMFPT HMASMIOP HMASMLC1	D RW	HMASMEXE RWC HMASMIO1 C HMASMLID RWC	HMASMIDU W HMASMLCC WC HMASMLKD W	HMASMIO RWC HMASMLCD C HMASMLKI W_	HMASMION WC HMASMLCP C HMASMPGC W
	HMASMRCC HMASMSEC HMASMTL 2	333	HMASMRCD W HMASMSUP W HMASMTMD WC	HMASMREC W HMASMTCR W HMASMTMJ W	HMASMPEJ WC HMASMTD1 WC HMASMTMS W	HMASMRJD W HMASMTID C HMASMTMW W
D=DEFINIT	HMASMTM1 ION, R=RE	AD, W=WRI	HMASMTM2 W	HMASMTM3 W EQUATE OPERAND, M=1	HMASMTM4 W MACRO, A=ABSOLUTE,	P=PARAMETER

IOPSRDTA - IOPTYPE

YMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCES\$	MODULE	ACCESS	MODULE	ACCES
OPTYPE	HMASMTPC	<u>ж</u>	HMASMTPL	_WC M	HMASMTPR	_WC M	HMASMTP2		HMASMTRM	W RWC
DPTYPE_C	HMASMTSB	₩ ₩	HMASMUCI HMASMUPI	RWC W	HMASMUC2 HMASMXRF	RWC	HMASMUC3 HMASMZAP	RMC M	HMASMUC4	RWC
DPTYPE_C	HMASMIOP	С								
OPTYPE_C	HMASMIOP	D								
OPTYPE_C	HMASMIOP	С								
OPUCLD	HMASMIOP HMASMFPT	D	HMASMIOP	n	HMASMUC1	W				
PUCLT	HMASMFPT HMASMIO	W		D	HMASMUC1 HMASMUC1	ä				
PUDEO	HMASMAAR HMASMIDU	R R	HMASMDR1 HMASMIO		HMASMDR2 HMASMION	₽ [™] C	HMASMDS1 HMASMIOP	R D	HMASMEIS HMASMIO1	D C
PUMID	HMASMTL2 HMASMAAR	e C	HMASMIDU		HMASMIOP	_	HMASMLCD	_	HMASMTID	c
PUNMOV	HMASMUC1 HMASMCOM	R C	HMASMIO	R	HMASMIOP			•		•
PUSED	HMASMIO HMASMAAR	ผั RW	HMASMIOP HMASMIO		HMASMIOP		HMASMI01	R		
PVERNM	HMASMFPT HMASMIOP	D	HMASMIOP		11112011201	•		•		
PVERST	HMASMIOP HMASMIO	Ď	HMASMIOP	D						
PWKX	HMASMIO HMASMZAP	r [°] c	HMASMIOP		HMASMTMD	R	HMASMTMS	R	HMASMTMW	R
PWK1	HMASMDSU HMASMDSU	Ř R	HMASMIO	R C R C	HMASMION HMASMION	č	HMASMIOP HMASMIOP	D	HMASMTBL HMASMTBL	D
PWK3	HMASMCMP HMASMTBL	P P	HMASMDSU	Ř	HMASMIO	RČ	HMASMION	٠ c	HMASMIOP	Ď
PWK4	HMASMDSU HMASMIO	L C	HMASMIO HMASMIOP	R C	HMASMION	С	HMASMIOP	D	HMASMTBL	D
PWRDIR	HMASMDR2 HMASMAR1	ŖČ	HMASMEIS HMASMAP2		HMASMIO HMASMAR3	P C	HMASMIOP HMASMAR4	D _p	HMASMASI	R
PWKIIC	HMASMASM HMASMCPI	Ř P	HMASMBUE	Ř R	HMASMBUR HMASMCRD	Ř R	HMASMCIL HMASMCRW	Ř R	HMASMCOM HMASMDRV	Ř R
	HMASMEIS HMASMIOP	Ř	HMASMF PT HMASML CC	Ŕ	HMASMF VL HMASML CD	Ř R	HMASMFXF HMASMLCP	Ř	HMASMIO HMASMLID	, c
	HMASMLKD HMASMRCL	R R	HMASMLKI HMASMREC	Ř R	HMASML OG HMASMTMD	Ř R	HMASMMSG HMASMTMW	Ř R	HMASMRCD HMASMTM1	R
	HMASMUC1 HMASMZAP	Ř	HMASMUC 2	Ř	HMASMUC3	Ř	HMASMUC4	Ř	HMASMUPI	Ř
PXTND	HMASMIO HMASMREJ	r c	HMASMIOP HMASMTD1		HMASMIO1 HMASMTPR	P C	HMASMLID HMASMXRF	R R	HMASMPGC	R
PXXX1 PXXX2	HMASMIOP HMASMIOP	p [*]	HIMASITIOI	•	MINASITIFE	•	HILASIIARE	*		
PXXX3 PXZP	HMASMIOP HMASMIO	b c	HMASMION	R C	HMASMIOP	n	HMASMTMD	R	HMASMTMS	R
PZAP	HMASMTMW HMASMIO	R Č	HMASMION		HMASMIOP		HMASMTMD	R	HMASMTMS	r R
P4	HMASMTMW	R Č DR	HMASMZAP	Ř	MIAGINIOF			•		•
RDS	HMASMIO HMASMIO	DŘ								
RTN	HMASMCOM HMASMIO		HMASMCPI	DR						
SUPLNK SVAREA	HMASMAAR HMASMIO	DR								
L	HMASMTMD	PŘW C				•				
PIACC	HMASMIOP	D								
1APF	HMASMIOP HMASMIOP	D								
1ASMOD 1CHREP	HMASMIOP HMASMIOP	В								
1COPY	HMASMIOP HMASMIOP	D								
PIDC PIDLBOO	HMASMIOP HMASMIOP	D D								
1DLIB 1DSYS	HMASMIOP HMASMIOP	D								
1DUMMP	HMASMIOP HMASMIOP	D								
IFLGS2	HMASMIOP HMASMIOP	Ď								
1FLGS5	HMASMIOP	D								
1FLGS7	HMASMIOP HMASMIOP	D								
1LINK 1LMD00	HMASMIOP HMASMIOP	D								
1 LMODS	HMASMIOP HMASMIOP	D								
1MACO1 1MCASL	HMASMIOP HMASMIOP	D								
1MCASM 1MCDLB	HMASMIOP HMASMIOP	B								
1MCENT 1MCFL1	HMASMIOP HMASMIOP	B								
1MCFXB 1MCLNG	HMASMIOP HMASMIOP	D								
IMCLVL	HMASMIOP HMASMIOP	D								
PIMCTYP	HMASMIOP HMASMIOP	D								
IMODOO	HMASMIOP HMASMIOP	D								
INUCID	HMASMIOP HMASMIOP	Ď D								
10VLY 1PAGA	HMASMIOP HMASMIOP	Ď								
1PDLM 1PEMAX	HMASMIOP HMASMIOP	D								
1PIND 1PMACR	HMASMIOP HMASMIOP	Ď								
IPMACU	HMASMIOP	Ď								

IOPTYPE - IP1PMACU

SYMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCES
IP1PMODS	HMASMIO									
IP1PMODU IP1PNPR	HMASMIO	D D								
PIPNTRY PIPPRE	HMASMIOF HMASMIOF	D D								
P1PREQ P1PSBY	HMASMIOF HMASMIOF	1 D								
P1PSRCR P1PSRCU	HMASMIOF HMASMIOF) D								
P1PSUP P1PSUPV	HMASMIOF HMASMIOF	D								
PIPTCDS PIPTF00	HMASMIOF HMASMIOF) D								
P1PXPD P1PZAP	HMASMIOF HMASMIOF	ם י								
PIREFR PIREGEN	HMASMIOF HMASMIOF	D D								
PIRENT	HMASMIOF	D								
PIREQ PIRES	HMASMIO) D								
PIREUS PISCTR	HMASMIOF HMASMIOF) D								
(PISREL (PISYSLB	HMASMIOF HMASMIOF	D								
[P1SYS00 [P1TS0	HMASMIOF HMASMIOF	D D								
IP3ACC IP3ACCD	HMASMIOF HMASMIOF	D D								
IP3APF IP3APP	HMASMIOF HMASMIOF) D								
IP3ASMND IP3ASMNT	HMASMIOF HMASMIOF) D								
IP3CHREP IP3COPY	HMASMIOF HMASMIOF) D								
IP3DATE	HMASMIOF HMASMIOF) D								
P3DLBND P3DLBNT	HMASMIO	ס י								
IP3DLIB	HMASMIOF	ם י								
IP3DLIND IP3DNTRY	HMASMIOF HMASMIOF) D								
IP3DSYS IP3DUMMP	HMASMIOF HMASMIOF	D D								
IP3ENTNM IP3ENTNT	HMASMIOF HMASMIOF	, D								
IP3ENTST IP3EOFND	HMASMIOF HMASMIOF	, D								
IP3EOFNT IP3EPROR	HMASMIO) D								
IP3FLGS2 IP3FLGS3	HMASMIOF HMASMIOF	D D								
IP3FLGS5 IP3FLGS7	HMASMIOF HMASMIOF) D								
IP3FORCÉ IP3LINK	HMASMIOF HMASMIOF	D D								
IP3LMDF1	HMASMIOR	D D								
IP3LMDF2 IP3LMDF3	HMASMIO	D D								
IP3LMDF4 IP3LMDF5	HMASMIOF HMASMIOF	D								
IP3LMDND IP3LMDNT	HMASMIOF HMASMIOF	D								
IP3LMIND IP3LMLEP	HMASMIOF HMASMIOF	D D								
IP3LMODS IP3LNTRY	HMASMIOF HMASMIOF) D								
IP3LSYS Ip3macf1	HMASMIOF HMASMIOF									
IP3MACID IP3MACND	HMASMIOF HMASMIOF	D D								
IP3MACNT IP3MACST	HMASMIOF HMASMIOF	D								
IP3MACUM	HMASMIOF	Ď								
PEMCASI PEMCASM	HMASMIOF HMASMIOF	Ď								
P3MCDLB	HMASMIOF HMASMIOF) D								
P3MCFL1	HMASMIOF	סי								
P3MCIND	HMASMIOF	D .								
P3MCLNG	HMASMIOF HMASMIOF	D D								
P3MCTYP P3MDC	HMASMIOF HMASMIOF	D								
P3MDIND P3MDLEP	HMASMIOF HMASMIOF	D								
EP3MNE EP3MNTRY	HMASMIOF HMASMIOF	D								
P3MODF1 P3MODF2	HMASMIOF HMASMIOF	D								
[P3MODF3 [P3MODF4	HMASMIOF HMASMIOF	D								
P3MODID P3MODND	HMASMIOF HMASMIOF	D								
P3MODNT P3MODST	HMASMIOF HMASMIOF	D								
P3MODUM P3MOVLY	HMASMIOF HMASMIOF	D								
P3MPAGA	HMASMIOF HMASMIOF	D								
P3MRENT	HMASMIOF HMASMIOF	D								
IP3MREUS IP3MRQNM IP3MRQNT	HMASMIOF	D								
IP3MRQP	HMASMIOF	D D								
PSMRQST	HMASMIOF									

IP1PMODS - IP3MRQST

SYMBO	1 1	15 A	GF

YMBOL	MODULE	ACCES	ss	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCE
P3MSCTR P3NE	HMASMIOP HMASMIOP	D									
P3NPRNM P3NPRNT	HMASMIOP HMASMIOP	D									
P3NPRP P3NPRST	HMASMIOP HMASMIOP	D									
3NTLVL 3NUCID	HMASMIOP HMASMIOP	D									
SOVLY	HMASMIOP	D									
3PAGA 3PDLM	HMASMIOP HMASMIOP	B									
3PDTES 3PEMAX	HMASMIOP HMASMIOP	D									
PSPIND	HMASMIOP HMASMIOP	D									
3PMODS 3PNTRY	HMASMIOP	D						-			
3PRENM 3PRENT	HMASMIOP HMASMIOP	D									
P3PREP P3PREST	HMASMIOP HMASMIOP	D									
3PSTAT	HMASMIOP HMASMIOP	D									
3PTFF2	HMASMIOP HMASMIOP	D									
3PTFF3	HMASMIOP	D									
P3PTFLN P3PTFND	HMASMIOP HMASMIOP	D									
P3PTFNT P3REFR	HMASMIOP HMASMIOP	D									
PSREGEN PSRENT	HMASMIOP HMASMIOP	D									
PSREQ	HMASMIOP	D									
3REQNM 3REQNT	HMASMIOP HMASMIOP	D									
3REQP 3REQST	HMASMIOP HMASMIOP	D									
PARES PAREUS	HMASMIOP HMASMIOP	D									
P3RMASM P3RMID	HMASMIOP HMASMIOP	D									
PSRMIDE	HMASMIOP	D									
P3RMST P3RMUM	HMASMIOP HMASMIOP	D									
3SBYNM 3SBYNT	HMASMIOP HMASMIOP										
P3SBYP P3SBYST	HMASMIOP HMASMIOP	D									
SSCNVL SSCTR	HMASMIOP HMASMIOP	Ď									
P3SNTRY	HMASMIOP	Ď									
P3SRCF1 P3SRCID	HMASMIOP HMASMIOP	D									
P3SRCND P3SRCNT	HMASMIOP HMASMIOP	D									
P3SRCST P3SRCUM	HMASMIOP HMASMIOP	D									
P3SRDLB	HMASMIOP HMASMIOP	D									
P3SPEL P3SRFXB	HMASMIOP	D									
P3SRIND P3SRLNG	HMASMIOP HMASMIOP	D									
P3SPSYS P3SUPNM	HMASMIOP HMASMIOP	D									
P3SUPNT P3SUPP	HMASMIOP HMASMIOP	D									
PSSUPST	HMASMIOP	D									
3SYSF1 3SYSLB	HMASMIOP HMASMIOP	D									
DN2Y2E9 TN2Y2E9	HMASMIOP HMASMIOP	D									
3TSO EQADDR	HMASMIOP HMASMTPD	D	P								
REQUIE	HMASMTPD HMASMAR1	DR									
PESET	HMASMCOM	D MC		HMASMTR1	рс	P					
QIREQI	HMASMCP2 HMASMTP2	D W	-	HUMSHIKT	5 0	-					
RONM RONT	HMASMTP2 HMASMTP2	DR									
ROST	HMASMTP2 HMASMLOG	D W									
SK TEMERR	HMASMTMD HMASMUC2	D W									
TYPE	HMASMTMS	DR C	P								
CENT	HMASMTAI	RW									
KLEN KPTR	HMASMTAI HMASMTAI	DPW									
Z	HMASMTMS HMASMAR3	DRM		HMASMAR4		HMASMBD	DRW	HMASMCOM	DR	HMASMCP	
	HMASMCP2 HMASMLKI	DRW		HMASMDLE HMASMPGC	DRW	HMASMID	JDRW	HMASMIO HMASMSUP	DRW M	HMASML KI HMASMTMI	DRW
	HMASMTMS HMASMVLU	DRWC		HMASMTPD HMASMZAP	DRW	HMASMTR		HMASMUPD	DRW	HMASMUP	DRW
BSTPDMY	HMASMUPD	DR	M	AMASHZAP	U R W						
CASM Casmex	HMASMDRV HMASMDRV	D	M								
COPYEX	HMASMDRV HMASMDRV	D	M								
CKEY	HMASMDRV HMASMDRV	D	M								
CKEYEX	HMASMDR1	DR	[™] P	HMASMMPE	D WC						
CLASM CLBUF	HMASMMPE HMASMUPD	DR									
CLBUFGM CLCOPY	HMASMUPD HMASMMPE										
LENC	HMASMASM			HMASMCPY	D D	HMASMLK	ם ח				

					SYMBO	LUSAGE					
SYMBOL	MODULE	ACCE	ss	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
JCLENSM	HMASMASM			HMASMLKD	D WC						
JCLFND JCLIN	HMASMTMJ HMASMDR1	DR									
JCLINACT JCLINCHK	HMASMASM HMASMDRV			HMASMCPY	D W	HMASMLKD	D W				
JCLINDAT JCLINEX	HMASMASM HMASMDRV	D W		HMASMCPY	D W	HMASMLKD	D W				
JCLINEXT JCLINEND	HMASMDRV HMASMMPE	DR									
JCLINK	HMASMDRV	Ď									
JCLINCUT	HMASMMPE HMASMASM	DR	М	HMASMCPY	DR	HMASMLKD	DR				
JCLKDEX JCLINRTN	HMASMIO HMASMDRV		M								
JCLKED JCLLIN e	HMASMDRV HMASMFPT	D	М	HMASMLKD	P						
JCLLKED JCLLKED	HMASMMPE HMASMMPD	D MC	м								
JCLP JCLPERIO	HMASMDRV HMASMMPE	D	M								
JCLPROC JCLPTRS	HMASMREC HMASMCPY	DR									
JCLRC	HMASMLKD	DRWC									
JCL ROUTS JCL RTN	HMASMLKD HMASMLKD	DR									
JCLRTNO JCLSAV	HMASMLKD HMASMDRV		M	HMASMUPD	DR						
JCLSCN05 JCLSCN10	HMASMUPD HMASMUPD	D DR									
JCLSCN20 JCLSCN30	HMASMUPD HMASMUPD	DR DR									
JCLUPD JCPGM	HMASMMPE HMASMDRV	D WC									
JCPGMEX	HMASMDRV	D	M								
JCRP JCUPDEX	HMASMDRV HMASMDRV	D	M								
JCUPDTE JFCBAREA	HMASMDRV HMASMIO	RW	М								
JFCBCTRI JFCBDCB	HMASMALC HMASMIO	DW									
JFCBDQTY JFCBDSNM	HMASMALC HMASMALC	Z Z		HMASMIO	WC						
JFCBELNM JFCBENT	HMASMIO HMASMIO	DŴ									
JFCBFLSQ	HMASMIO	RWC									
JFCBLKSI JFCBMOD	HMASMIO HMASMIO	DR									
JFCBOPEN JFCBOPSW	HMASMIO HMASMIO	DR W									
JFCBOPS1 JFCBPQTY	HMASMIO HMASMALC	DW									
JFCBPTF JFCBPTR	HMASMIO HMASMALC	DR DRW		HMASMIO	D						
JFCBRTN JFCBSAV1	HMASMIO HMASMIO	D DR			_						
JFCBSAV2 JFCBSQTY	HMASMIO HMASMALC	DR									
JFCBVOLS	HMASMALC	DRŴC		HMASMIO	R						
JFCB01NM JFCB02NM	HMASMIO HMASMIO	D MC									
JFCDCB JFCDISP	HMASMBDL HMASMIO	DRWC									
JFCEXL JFCFMREC	HMASMIO HMASMIO	DW	M								
JFCLRECL JFCNWRIT	HMASMIO HMASMIO	Z Z									
JFCORGPO JFCPDS	HMASMALC HMASMIO	W									
JFCRECFM JFCRFB	HMASMIO HMASMIO	W									
JFCRLSE JFCSL	HMASMALC HMASMIO	ũ _c									
JJ	HMASMDLE	DRW		HMASMREC		HMASMTD1	DRW				
JM JOB	HMASMTMD HMASMUPD	DR C		HMASMTRM	DKM						
JOBK JOBNAME	HMASMUPD HMASMUPD	DRW									
JOBSET JPTR	HMASMUPD HMASMCPY	D	P								
JRTRC JSTEPN	HMASML KD HMASMUPD	D									
JSTĒPNSV K	HMASMUPD HMASMAR4	DR DRW	M	HMASMASM	DRW	HMASMCPI	DRW	HMASMCP2	DRM	HMASMDLE	DRW
	HMASMIDU HMASMTPD	DRW	P	HMASMIO HMASMTR1	DRW	HMASML KD HMASMUPD	DRW	HMASMPGC HMASMZAP	DRW	HMASMSUP	DRW
KACC KACDS	HMASMUC2 HMASMUC2	D		wiiiR&	J			AVIIEAP	J		
KADDOO	HMASMUC1	Ď		HMASMUC3	D						
KANY1 Kapp	HMASMUC2	D									
KASMD Kasmlpol	HMASMUC1 HMASMUC1	D	M								
KASMNAM KASMRP	HMASMUC1 HMASMUC1	D	M								
KASMOO KCDS	HMASMUC1 HMASMUC2	D									
KCOMMA1 KDATALP	HMASMDSU	B	M								
KDATARP KDATAV	HMASMMPV HMASMMPV	D									
KDATE KDATEEQ	HMASMDSU HMASMDSU	D	M M								
KDATEV KDEL	HMASMDSU HMASMMPV	D	••								
KDELOO	HMASMUC1 HMASMDRV	D	M	HMASMUC3	D	HMASMUC4	D				
KDIS KDISLP	HMASMDRV	Б	M								
D-DEETNIT	TON D-DE	AD 14	-1487	TE C-COM		NIATE ARE	AAND M-M	ACRO A-AI	PEALLITE	D-DADAMET	

DEDEFINITION, REREAD, WEWRITE, CECOMPARE, EEEQUATE OPERAND, MEMACRO, AEABSOLUTE, PEPARAMETER

				Man			LUSAGE					MARIU -	
SYMBOL	MODULE	ACCE		MODULE	ACCE	22	MODULE	ACCE	<u></u>	MODULE	ACCESS	MODULE	ACCESS
KDISN	HMASMDRV	D											
KDISR KDISRP	HMASMDRV HMASMDRV	Ď	M										
KDISW KDLBLP01	HMASMDRV HMASMUC1	Ď	M										
KDLBNAM KDLBRP01	HMASMUC1 HMASMUC1	B	M										
KDLBSYD KDLB S YLB	HMASMUC1 HMASMUC1	B	M										
KDLBSYLP KDLBSYRP	HMASMUC1 HMASMUC1	D	M										
KDLBSYV KDLBTD	HMASMUC1 HMASMUC1	D	M										
KDLB00 KENDPER		D	M	HMASMUC3		M	HMASMUC4		M				
KENDUCL KEOCARD		B	M	HMASMUC3	D		HMASMUC4	D					
KEYALIAS KEYL	HMASMDLE	DRWC											
KEYLEN KEYROUT	HMASMLKD	DR R		HMASMLKD	DR								
KEYROUTS KEYS	HMASMLKD	D.R.											
KEYSCLGN KEYWORD	HMASMTPA HMASML KD	B MC											
KEY010 KEY020	HMASML KD	D											
KEY030 Key040 Key050	HMASMLKD HMASMLKD	D											
KEYO60 KEYO70	HMASMLKD HMASMLKD HMASMLKD	00											
KEY075 KEY080	HMASML KD HMASML KD	0											
KEY090 KEY100		Ď											
KEY110 KEY120	HMASML KD HMASML KD	Ď											
KEY130 KFLSHCHR	HMASML KD	Ď											
KFLSHPR KFLUSH	HMASMUC3 HMASMUC1	D	м	HMASMUC3	D	м	HMASMUC4	D	м				
KFLUSHCH KFLUSHPR	HMASMUC1 HMASMUC1	D		HMASMUC4 HMASMUC4	D			_	••				
KFMDD KFMDLP01	HMASMUC3 HMASMUC3	D											
KFMDNAM KFMDPER	HMASMUC3 HMASMUC3	D	M										
KFMDRP01 KFMDSMD	HMASMUC3 HMASMUC3	B	M										
K F M D S M D D K F M D S M D V	HMASMUC3	D											
K FMD SMLP K FMD SMRP	HMASMUC3 HMASMUC3	D	M										
KFMD00 KFMID		D		HMASMMPI	D		HMASMMPV	D	M				
KFMIDEQ KFMIDLP KFMIDRP	HMASMDSU HMASMMPI HMASMMPI	D D											
KFMIDV KIF	HMASMDSU HMASMMPI	B		HMASMMPI	D								
KJDIS KJDISLP	HMASMDRV HMASMDRV	Ď	м										
KJDISN KJDISR	HMASMDRV HMASMDRV	Ď	••										
KJDISRP KJDISW	HMASMDRV HMASMDRV		M										
KK	HMASMDLE HMASMTMD	DRW		HMASMIDU HMASMTMS			HMASMTCL	DRW		HMASMTCR	DRW	HMASMTD1	DRW
KLENREQ	HMASMGPF HMASMGPF	R		HMASMRCD		M							
KLMDALN2 KLMDAL2B	HMASMUC1 HMASMUC1	B											
KLMDAPF KLMDCOPY	HMASMUC1 HMASMUC1	D											
KLMDDC KLMDLP01	HMASMUC1 HMASMUC1	D	M										
K L MD NAM K L MD NE	HMASMUC1 HMASMUC1	B											
KLMDOVLY	HMASMUC1 HMASMUC1 HMASMUC1	D											
KLMDRENT KLMDREUS KLMDRP01	HMASMUC1 HMASMUC1	D D	M M										
KLMDSCTR KLMDSTD	HMASMUC1 HMASMUC1	D	"										
KLMDSYD KLMDSYLB	HMASMUC1 HMASMUC1	Ď											
KLMDSYLP KLMDSYRP	HMASMUC1 HMASMUC1	Ď	M										
KLMDSYV KLMDTD	HMASMUC1 HMASMUC1	В											
KLMD00 KMACALD	HMASMUC1 HMASMUC1	D											
KMACAL LP KMACAL RP	HMASMUC1 HMASMUC1	D	M										
KMACALV KMACASML	HMASMUC1	D											
KMACASSM KMACBASE KMACBSFX	HMASMUC1 HMASMUC1 HMASMUC1	D D D											
KMACBSLP KMACBSRP	HMASMUC1	D D	M										
KMACDLBD KMACDLBV	HMASMUC1 HMASMUC1	D											
KMACDLB2 KMACDLIB	HMASMUC1 HMASMUC1	D	M										
									• • • • •				

DEDEFINITION, REREAD, WEWRITE, CECOMPARE, EEEQUATE OPERAND, MEMACRO, ASABSOLUTE, PEPARAMETER

KDISN - KMACDLIB

YMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
MACDLLP	HMASMUC1									
ACD L RP	HMASMUC1 HMASMUC1	D M								
ACFMDV	HMASMUC1 HMASMUC1	D								
ACFMLP IACFMRP	HMASMUC1 HMASMUC1	D M								
IACGASM	HMASMUC1	D								
IACLP01	HMASMUC1 HMASMUC1	D								
IACNAM IACRMDD	HMASMUC1 HMASMUC1	D								
ACRMDV ACRMID	HMASMUC1 HMASMUC1	D D								
IACRMLP IACRMRP	HMASMUC1 HMASMUC1	D M								
ACRP01	HMASMUC1 HMASMUC1	D M								
ACSYD ACSYLB ACSYLP	HMASMUC1 HMASMUC1	D								
IACSYRP	HMASMUC1	D M								
ACSYV	HMASMUC1 HMASMUC1	D								
IACUMID IACXD	HMASMUC1 HMASMUC1	D								
IACXLP IACXRP	HMASMUC1 HMASMUC1	D M								
IACXV IACYD	HMASMUC1 HMASMUC1	D								
ACYLP ACYRP	HMASMUC1 HMASMUC1	D M								
IACYV IACZD	HMASMUC1 HMASMUC1	D								
IACZLP IACZRP	HMASMUC1 HMASMUC1	D M								
IACZV	HMASMUC1	D								
IACOO IODDAL	HMASMUC1 HMASMUC1	D								
IODDALD IODDALP	HMASMUC1 HMASMUC1	D M								
IODDAL V IODDAR P	HMASMUC1 HMASMUC1									
ODD L BD	HMASMUC1 HMASMUC1	D D								
ODDLB1	HMASMUC1 HMASMUC1	D								
ODDLLP	HMASMUC1 HMASMUC1	D M								
ODFMDD	HMASMUC1	D								
10DFMDV	HMASMUC1 HMASMUC1	D								
ODFMLP ODFMRP	HMASMUC1 HMASMUC1	D M								
IOD L MDD	HMASMUC1 HMASMUC1	D								
10D LMLP 10D LMOD	HMASMUC1 HMASMUC1	D								
10D L M R P 10D L P 0 1	HMASMUC1 HMASMUC1									
10D NAM 10D RMDD	HMASMUC1 HMASMUC1									
10DRMDV 10DRMID	HMASMUC1 HMASMUC1	D								
10DRMLP	HMASMUC1 HMASMUC1	D M								
ODRPO1	HMASMUC1 HMASMUC1	D M								
10DTALD	HMASMUC1 HMASMUC1	D								
10DTALP	HMASMUC1	D								
ODTARP	HMASMUC1 HMASMUC1	D								
ODUMD ODUMID	HMASMUC1 HMASMUC1	D								
10DUML P 10DUMR P	HMASMUC1 HMASMUC1	D M								
IODUMV IOD00	HMASMUC1 HMASMUC1	D								
IOJCL IOJCLLP	HMASMDRV HMASMDRV									
OJCL RP	HMASMDRV HMASMDRV	D M								
PRE	HMASMMPV HMASMMPI	D	HMASMMP\	/ D						
ER1	HMASMLCP HMASMMPV	DR								
EPOO	HMASMUC1 HMASMMPI	D	HMASMUC:	5 D						
EQLP	HMASMMPI HMASMMPI	D	HIMSTHIF							
EQRP	HMASMMPI	D								
MDACCD MDACC1	HMASMUC1 HMASMUC1	D								
MDACC2	HMASMUC1 HMASMUC1	D								
MDAPPD MDAPP1	HMASMUC1 HMASMUC1	D								
MDAPP2 MDAPP3	HMASMUC1 HMASMUC1	D D								
MDAPR1	HMASMUC1 HMASMUC1	D								
MDBYP1	HMASMUC1 HMASMUC1	D								
MDDATE	HMASMUC1 HMASMUC1	D								
MDDBRP	HMASMUC1 HMASMUC1	D M								
MDDBTD	HUMSHOCT									

				SY	MBOL	USAGE					
SYMBOL	MODULE	ACCESS	MODULE	ACCES	s	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
KSMDDBY	HMASMUC1										
KSMDDBYV KSMDDEL	HMASMUC1 HMASMUC1	D									
KSMDDTD KSMDDTLP	HMASMUC1 HMASMUC1	D M									
KSMDDTRP KSMDDTV	HMASMUC1 HMASMUC1	Ď M									
KSMDERRI	HMASMUC1	D									
KSMDERR2 KSMDFMD	HMASMUC1 HMASMUC1	D		_							
KSMDFMD d KSMDFMDV	HMASMUC1 HMASMUC1	D	HMASMUC3 HMASMUC3								
KSMDFMI d KSMDFMLP	HMASMUC3 HMASMUC1	D M	HMASMUC3	D	м						
KSMDFMRP KSMDFNC1	HMASMUC1 HMASMUC1		HMASMUC3	D	M						
KSMDISUP KSMDLP01	HMASMUC1 HMASMUC1	D M	HMASMUC3	D	м	HMASMUC4	D				
KSMDLSLP KSMDLSRP	HMASMUC1 HMASMUC1	D M		-			_				
KSMDLSTD	HMASMUC1	D									
KSMDLSUP KSMDLSV	HMASMUC1 HMASMUC1	D									
KSMDMCR KSMDMCU1	HMASMUC1 HMASMUC1	D									
KSMDMCU2 KSMDMOD	HMASMUC1 HMASMUC1	D									
KSMD NAM KSMD NPR	HMASMUC1 HMASMUC1		HMASMUC3	D		HMASMUC4	D				
KSMDPER KSMDPRE	HMASMUC3 HMASMUC1	D M									
KSMDPTF1 KSMDRECD	HMASMUC1 HMASMUC1	D									
KSMDREQ	HMASMUC1	D	HMASMUC3	D							
KSMDREQD KSMDREQV	HMASMUC3 HMASMUC3	D									
KSMDRESD KSMDRES1	HMASMUC1 HMASMUC1	D									
KSMDPES2 KSMDRES3	HMASMUC1 HMASMUC1	B									
KSMDRGN1 KSMDRGN2	HMASMUC1 HMASMUC1	D									
KSMDRMCR KSMDRMCU	HMASMUC1 HMASMUC1	D									
KSMDRMDR	HMASMUC1 HMASMUC1	D	HMASMUC3	n	м	HMASMUC4	D M				
KSMDRP01 KSMDRQLP	HMASMUC3	D M	HITASITOCS		rı	HILASIIOCA	0 H				
KSMDRQRP KSMDRSCR	HMASMUC3 HMASMUC1	D									
KSMDRSCU KSMDRSZP	HMASMUC1 HMASMUC1	D									
KSMDRXZP KSMDSBY1	HMASMUC1 HMASMUC1										
KSMDSBY2 KSMDSCR	HMASMUC1 HMASMUC1	D									
KSMDSCÜ KSMDSZP	HMASMUC1 HMASMUC1	D									
KSMDTD KSMDUSR1	HMASMUC1 HMASMUC1	D	HMASMUC4	D							
KSMDVERS	HMASMUC1	D									
KSMDXDEL KSMDXLP	HMASMUC1 HMASMUC1	D M									
KSMDXNAM KSMDXRP	HMASMUC1 HMASMUC1	D M									
KSMDXZP KSMDYDEL	HMASMUC1 HMASMUC1	Ď									
KSMDYLP KSMDYNAM	HMASMUC1 HMASMUC1	D							•		
KSMDYRP KSMD00	HMASMUC1 HMASMUC1		HMASMUC3	D	M	HMASMUC4	D				
KSMD01 KSRCLP01	HMASMUC1 HMASMUC1	D		_							
KSRCNAM KSRCRP01	HMASMUC1 HMASMUC1	D				•					
KSRCOO	HMASMUC1 HMASMMPV	D									
KSUP KSYSCDD	HMASMUC1	D									
KSYSCDID KSYSCDLP	HMASMUC1 HMASMUC1	D M									
KSYSCDRP KSYSCDV	HMASMUC1 HMASMUC1	D M									
KSYSNCD Ksysncid	HMASMUC1 HMASMUC1	B									
KSYSNCLP KSYSNCRP	HMASMUC1 HMASMUC1	D M									
KSYSNCV Ksyspemx	HMASMUC1 HMASMUC1	D									
KSYSPMD KSYSPMLP	HMASMUC1 HMASMUC1	D									
KSYSPMRP KSYSPMV	HMASMUC1 HMASMUC1	D M									
KSYSSMTS	HMASMUC1	D									
KSYSSREL	HMASMUC1 HMASMUC1	D									
KSYSSRLP KSYSSRLV	HMASMUC1 HMASMUC1	D									
KSYSSRRP KSYSSSTS	HMASMUC1 HMASMUC1	D									
KSYSTD KSYSOO	HMASMUC1 HMASMUC1	D									
KTHEN KUDIS	HMASMMPI HMASMDRV	D									
KUDISLP KUDISN	HMASMDRV HMASMDRV	Ď M D									
KUDISR KUDISRP	HMASMDRV HMASMDRV	Ď M									
RUDISW	HMASMDRV										

DEDEFINITION, REREAD, WEWRITE, CECOMPARE, EEEQUATE OPERAND, MEMACRO, AEABSOLUTE, PEPARAMETER

YMBOL	MODULE	ACCES	:s	MODUL E	ACCES		MODULE	ACCESS	:	MODULE	ACCESS	MODULE	ACCESS
/ER /ERRP /ERRP /ERS /ERV (TRADTA 2PLUS	HMASMMPV HMASMMPV HMASMMPV HMASMMPV HMASMMPI HMASMMPI HMASMMPI HMASMALC	0000000	M	HMASMMPV HMASMUC3 HMASMMPV HMASMCIL	D R	м	HMASMUC4	DRW	1	HMASMCPI		HMASMCP2	
ABELCK ABELK	HMASMIO HMASMTM3 HMASMZAP HMASMTBL HMASMASM HMASMASM	DRW DR DR	M	HMASMMSG HMASMTM4	DRW	M	HMASMTMW HMASMTPS			HMASMTM1 HMASMTR1		HMASMTM2 HMASMUPI	
PRSAV PR1 STCAUS STDDI	HMASMDRV HMASMDRV HMASMAR4 HMASMIO	D	M	HMASML CC	D WC								
STDDO STDIG Stenv	HMASMIO HMASMASM HMASMLCC	D WC		HMASMDRV			HMASMDSU	DRW		HMASMIO	DRW		
STFMID STIDS STLINE STOWNR	HMASMCRW HMASMTMS HMASMASM HMASMAR4	D DR		HMASMTMS HMASMCPY			HMASML KD	D	P				
STRCD STRMID STTYPE YPK1	HMASMAR2 HMASMTMS HMASMAR4	D D D D	P	HMASMFPT HMASMLID		P	HMASMFXF	D WC		HMASMLCC	D C	HMASMLCD	D C
YPK2 YPSAV CFMD CFMSRT	HMASMDRV HMASMDRV HMASMLCC HMASMLCC	D	М										
CFUL CHDR CIOP CPC	HMASMLCC	DR DR DR											
CSMD CSMSRT CSORT CWRITE	HMASMLCC HMASMLCC HMASMLCC HMASMLCC	DR DR DR											
DASM DDLB DFMID DLMD	HMASMLCD HMASMLCD HMASMLCD HMASMLCD HMASMLCD	DR DR DR											
DLUPD DMAC DMOD DP	HMASMLCD HMASMLCD HMASMPRM	DR DRWC											
DRMID DRTNCD DSCDS DSETHD	HMASMLCD HMASMLCD HMASMLCD												
DSRC DSYS DVPUT DWRITE L	HMASMLCD HMASMLCD HMASMLCD HMASMLCD HMASMUXC	DR DR DR											
LSTAT LVERNO PIORTN PMCS	HMASMTEC	DRWC DRWC DR	P										
PPGM PSETHD PSYS PWRITE	HMASMLCP HMASMLCP HMASMLCP HMASMLCP	DR DR DR											
RTNCD TCKFLG LIOP LMASRC	HMASMDS1 HMASMIDU HMASMLC1 HMASMLC1	D W DR DRW	P										
LMASS LRC LSEL LSELRC	HMASMLC1 HMASMLC1 HMASMLC1 HMASMLC1	DRWC DR DRW											
DERRSW ELK1 ELK2 ELSAV	HMASMTBL HMASMDRV HMASMDRV	D	M p	HMASMTCL	J		HMASMTDD	D MC					
LIB ALN2 ALN2FD APF	HMASMMPE	D D	M M M										
APFFD ATTR AVE DC	HMASMLCD HMASMLCD HMASMIO HMASMMPE	D R D	M M M										
DCBS DCFD FND INDX LET	HMASMMPE	D D D R W C	M M M										
LIST LPAR N NCAL	HMASMMPE HMASMMPE HMASMTAD HMASMMPE	D D D R W	M M	HMASMTBL	DRW		HMASMTCL	D					
NDCB NE NEFD NGTH	HMASMIO HMASMMPE HMASMAAR	DRW DDR	M M	HMASMALC	D		HMASMARL		P	HMASMAR1	D₽	HMASMAR2	DR
	HMASMAR3 HMASMBUR HMASMDC1 HMASMDS1 HMASMGPF	D R D		HMASMAR4 HMASMCPL HMASMDC2 HMASMEIS HMASMGTA		P	HMASMASM HMASMCPY HMASMDLE HMASMFPT	DR DR C DR		HMASMBDL HMASMCRD HMASMDRV HMASMFVL	DR DR C	HMASMBUE HMASMCRW HMASMDSU HMASMFXF	D R R DR
	HMASMLCD	DR	••••	HMASMLCP	DR	<u>.</u>	HMASMIO HMASMLC1	D		HMASMIO1 HMASMLID	DŘ	HMASMLCC HMASMLKD P=PARAMETE	DR

SYMBOL	MODULE	ACCES	s	MODULE	S'		MODULE	ACCESS	:	MODULE	ACCESS	MODULE	A	CCESS	
LENGTH	HMASMLKI HMASMPMG HMASMPEJ HMASMSUB HMASMUB HMASMTLI HMASMTPA HMASMTPA HMASMUPA HMASMUPA	DR C DR	. p	HMASMMPID HMASMRIO HMASMRIO HMASMTAD HMASMTL HMASMTL HMASMTH HMASMTPC HMASMTPC HMASMTPC HMASMUPI	CCC	M P	HMASMMCD HMASMMPU HMASMRCID HMASMTAI HMASMTI HMASMTI HMASMTI HMASMTPI HMASMTPI HMASMUCC HMASMUCC HMASMUCC	DR CDR	PPP	HMASMMSQ HMASMMSQ HMASMSCN HMASMTBL HMASMTMD HMASMTMD HMASMTMD HMASMTPR HMASMUCU HMASMUCU HMASMUCU	DR	HMASMR HMASMR HMASMR P HMASMT P HMASMT P HMASMT P HMASMT HMASM HMASM	GCCAMD DI	R C RR R	
G YYKM NR FR T D D D D D D D D D D D D D D D D D D	HMASMMPPEL HMASMMPPEL	33 UU U	3333 333 33 3333 00	HMASMSCN	D WC										
LEXPERA PLEASE VALUE AND COLOR AND C	HMASMMPE HMASMDRV HMASMDRV HMASMDRV HMASMUC2 HMASMUC2 HMASMMPE HMASMMPE HMASMMPE HMASMMPE HMASMMPE HMASMMPE HMASMMPE HMASMMPE HMASMMPE	0000 000000000000000000000000000000000	M M												
LICFOUND LICITOTOP LICITSTYI LICENTERSI LICE	HMASMTSB HMASMTSB HMASMTSB HMASMTSB HMASMTSB HMASMTSB HMASMTSB HMASMTSB HMASMTSB HMASMLID HMASMLID HMASMLID HMASMLID	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													
LIDSELCT LIDWRITE LINE LINECT LINEMAX LINEPTR	HMASMLID HMASMLID HMASMASM HMASMIO HMASMIO HMASMCPY	D R D R	P	HMASMCPY	R		HMASMLKD	DR	P						
LINESW LINESWS LINK LINKEOF	HMASMAR4 HMASMAR3 HMASMAAR HMASMZAP HMASMLKI	D WC		HMASMCOM	R		HMASMLKI	DR		HMASMRCD	R	HMASMU	PI	P	
LINKERR LINKLIB LINKREG LINKRTN LINKSK	HMASMLKĪ HMASMBDL HMASMAAR HMASMCIL HMASMUPD	D WC	M M	HMASMDRV HMASMCIL HMASMCOM	DRW		HMASMCOM HMASMCPI	DRW DR C		HMASMCPI HMASMLKI		HMASML	KI D	RW	
LISTACDS LISTACRQ LISTALRQ LISTALL2	HMASMTMW HMASMDLE HMASMLOG HMASMDRV HMASMDRV HMASMDRV	E E E E E	MM	HMASMDRV HMASMLCD HMASMPRM HMASMDR1 HMASMDR1 HMASMLID	000000	E E	HMASMDR1 HMASMLCP HMASMTRM HMASMFPT HMASMLID HMASMLOG	DR UUU	1	HMASMDR2 HMASMLC1 HMASMXRF HMASMLCD HMASMXRF	EEE C C	HMASME HMASML	ID	M C	
LISTAPAR LISTASM LISTBAD LISTBOAT LISTBOD	HMASMDRV HMASMDRV HMASMDRV HMASMDRV HMASMDRV			HMASMFPT HMASMLID	c		HMASMTRM	W		HMASMXRF	c				
LISTBMM LISTBYP LISTBYY LISTCDS LISTCHCK	HMASMDRV HMASMDRV HMASMDLE HMASMLID HMASMDRV	DR C		HMASMFPT HMASMDRV HMASMTRM	MC C		HMASMDR1 HMASMXRF	c		HMASMFPT	с	HMASML	CD	С	
LISTCHK LISTCHT LISTCRQ LISTDEL LISTDLB LISTDSID	HMASMCOM HMASMDRV HMASMDRV HMASMCOM HMASMDRV HMASMLID	R W W W		HMASMDR1 HMASMDRV HMASMLID	A00 000		HMASMLCC HMASMFPT	c		HMASMLID	С				
D=DEFINIT			WRI	TE, C=COM	PARE,	E=E	RUATE OPE	RAND, M	1=M	ACRO, A=A	SOLUTE	PEPARAM	ETER		•

LENGTH - LISTDSID

							L USAGE								
SYMBOL M	10DULE	ACCESS	:	MODULE	ACCE	s s	MODULE	ACCESS	:	MODULE	ACCESS	_	MODULE	ACCESS	
	HMASMLOG	R													
LISTELM H	HMASMDRV HMASMCOM	DR C													
	HMASMDRV HMASMVLU	DR DR													
LISTERR H	HMASMDRV HMASMDRV	MC		HMASMFPT	С										
LISTFLG H	HMASMCOM HMASMDRV	D WC		HMASMLCC	С		HMASMLID	С							
LISTFUNC H	HMASMDRV HMASMDRV	DR WC		HMASMFPT	С										
LISTK H	MASMDRV MASMZAP	D													
LISTLMD H	MASMOLE MASMORV	M		HMASMDRV HMASMLID	MC		HMASMLID	С		HMASMXRF	С				
LISTMAC H	MASMDRV MASMDRV	WC WC		HMASMLID HMASMLID	CCC		HMASMTRM	W		HMASMXRF	С				
LISTMOD H	MASMORV MASMTPA	MC	P	HMASML ID	Č		HMASMTRM	W		HMASMXRF	С				
LISTNOAC H	MASMDRV MASMDRV	MC MC	•	HMASMDR1 HMASMDP1	C		HMASMLC1 HMASMLC1	c		HMASMLID HMASMLID	ç				
LISTNSUP H	MASMDRV MASMDLE	M OC	P	HMASMFPT HMASMDRV	ωČ	P		·	P	HMASMDR2	•		HMASMFPT		P
н	MASMLCC MASMLOG	-	P	HMASMLCD HMASMTRM	W	P	HMASMLCP		P	HMASMLC1		P			P
LISTPER H	MASMDRV MASMTPS	D WC		ninasiri kiri	~	-	HUMSHIARE		-						
LISTPRM1 H	HMASMDRV	0 %0		UMACMITO	_										
LISTPTF H	HMASMDRV	MC OC		HMASMLID	000		UMACMERT	С		UMA CMI TR	С				
LISTRES H	HMASMDRV HMASMDRV	MC		HMASMDR1 HMASMFPT	č		HMASMFPT	·		HMASMLID	C				
LISTSCDS H	MASMDRV MASMDRV	MC		HMASMDR1	.,с		HMASMEPT	ç		HMASMLCD	ç		HMASMLID	ç	
н	HMASMDLE HMASMTRM	W.		HMASMDRV HMASMXRF	۳c		HMASMDR1	c		HMASMLC1	C		HMASMLID	С	
LISTSRC H	MASMDRV MASMDRV	MC		HMASMLCC HMASMLID	ç		HMASML ID HMASMTRM	wC		HMASMXRF HMASMXRF	CC				
LISTSYS H	HMASMDRV HMASMDRV	MC MC		HMASMF PT HMASML ID	ç										
LISTXREF H	HMASMDRV HMASMDLE	MC		HMASMF PT HMASMD RV	MC C		HMASMFPT	С		HMASMLCD	С		HMASMLID	С	
LKDCC H	HMASMTRM HMASMLKD	DR													
	HMASMDS1 HMASMDS1														
		DR DR													
LKDLNAME H	HMASMLKD HMASMBDL	D R D R													
LKDNMFND H	HMASMMPE HMASMLKD	DRW													
LKDRCDFT H	MASMDS1	DR													
LKDSAVCC H	HMASMLKD	DR DR													
LKDSW H		D MC	,												
LKEDLPAR H	MASMMPE MASMMPE	0 0													
LKEDVAL H	MASMMPE MASMMPE	Ď 1													
LKEPGMFD H	MASMMPE MASMMPE	D 1	1												
LKIRTNOD H	MASMLKI MASMMPE	DRWC													
ĹKLIB H	MASMMPE MASMMPE	D WC													
LL H	HMASMDLE	DRW		HMASMTCR	DRW		HMASMTD1	DRW		HMASMTMD	DRW		HMASMTMS	DRW	
LLDATA H	MASMALC	DRWC													
LLOGALL H	MASMALC MASMDRV	DR M	•												
LLPCODE H	MASMORV MASMALC	DRW													
LLVOL H	MASMALC	DRW			_			_							
LMALIAS H	MASMDLE MASMDLE	DR		HMASMIO	R		HMASMUXC	R							
LMCHK H	MASMLKI MASMCOM														
LMDAPRY1 H	MASMEIS MASMLCD		P												
LMDBLDL H	IMASMTL2	DR DR													
LMDDN H	MASMOPL MASMOLE	D	P												
LMDENTRY H	IMASMDLE IMASMDLE	D WC	P	HMASMLID	DR										
LMDERR H	MASMDLE	D WC													
LMDFLGS H LMDFND H	MASMDLE Masmlkd	D MC													
LMDLOC H	MASMAAR Masmtl2	DR		HMASMTL 2	DRW										
LMDNTCPL H	MASMTCL Masmole	DR DRWC	P												
LMDSETUP H	MASMCPI Masmaar	DR DRW		HMASMTL 2	DRW										
LMEM H	MASMDRV Masmtl3	D M	l												
LMM H	MASMPRM MASMTBL	С		HMASMTBL		M	HMASMTL1	м	1	HMASMTM1	м				
LMMKEY H	MASMTBL	RW	P	HMASMTM1	W										
LMMMNAME H	MASMTL1	RWC		HMASMTM1 HMASMTL1	W RW		HMASMTM1	R							
D=DEFINITIO	. .		RIT			E=F		RAND. M	 = M4	ACRO. A=A	SOLUTE	:	P=PARAMET!	 ER	-

LISTEDAT - LMMRECRD

YMBOL	MODULE	ACCE	ss	MODULE	ACCES		MODULE	ACC	ESS	MODULE	ACCESS	MODULE	ACCES
MMSMD	HMASMTL1	RWC		HMASMTM1	L J							-	
NAME NME	HMASMDLE HMASMDLE	DR DR	P		DRŴC								
INRC IOD IODADD	HMASMLKD HMASMAR2 HMASMTM1	DRWC		HMASMTBL	D	P	HMASMTBM	D	С	HMASMUC1	D WC	HMASMZAF	סי
ODBIT	HMASMMPE HMASMD L E	D WC											
100 F ND 100 K	HMASMMPE HMASMDRV	D	М	HMASMTM1	DRWC								
10DKEY 10DLPAR	HMASMMPE HMASMMPE	D	М										
MODMSG MODNAM		DRWC											
10DNM 10DPTR	HMASMCPI HMASMAR2	DRW											
MODRPAR MODSAV	HMASMMPE HMASMDRV	D	M										
10DTYPE 10DVAL	HMASMTAD HMASMMPE	D	M M										
10DVALU 10DXRF 1PRCICT	HMASMDLE HMASMDLE HMASMDLE	DR	М										
MSYSLIB MXRFRC	HMASMDLE HMASMDLE	DW	P										
NACCK1	HMASMDLE	DRW	_										
NACCK 2 NACCSAV	HMASMDRV HMASMDRV	D	м										
NAPPK1 NAPPK2	HMASMDRV HMASMDRV	D											
NAPPSAV NGTH	HMASMDRV HMASMAAR	D	M										
NKREG NSUPK	HMASMASI HMASMDRV	DRM											
NSUPSAV NUM	HMASMDRV HMASMAR3	DRWC	М										
NXCKEYÐ	HMASMTPA HMASMTPA	D	P										
NXIOP NXLST	HMASMTPA HMASMTPA	D	P										
NXRC DAD	HMASMTPA HMASMUXC	R											
DADMDSV DADMOD	HMASMCPY HMASML ID	DR											
DADNAME DADOKSW	HMASMUXC HMASMEIS	D WC											
DADORC	HMASMDR1 HMASMDR1	DRWC											
OADRRC OCALBIT	HMASMDR1 HMASMMPE	DW											
OCALCP2 OCALIOP	HMASMOP2 HMASMDLE HMASMTPS	DRW	P	HMASMTCR	DR								
OCALTPS OCALTR1 OCALTSI	HMASMTR1 HMASMTSB	D WC	Р										
OCALTSS OCALIX	HMASMTSB HMASMREC	DRW	-										
DCALZX DCATE	HMASMREC HMASMUC 2	DRWC	м										
OCATE1 OCELEM	HMASMUC2 HMASMTMD	DR											
OCIOP	HMASMDLE HMASMTMD	DR		HMASMTPC	DR								
OCMCSRC OCMPTR	HMASMTPC HMASMTMW	DRW D											
OCNXT OCRC	HMASMTPA HMASMBUE	DR DRW		HMASMEIS	DPW		HMASMTMD	DRW	P				
OCREQC OCRTNOD	HMASMCP2 HMASMGTA	DRW		HMASMTL 2	DRW								
OCSPL OCTEN	HMASMRCD HMASMSTA	DRW											
OC1X OG	HMASMREC HMASMCIL	DRWC	M	HMASMDR1	D		HMASMRCD		M	HMASMRCF	M	HMASMTA	!
0001125	HMASMTAI	D.F.	E E 3	HMASMTBL HMASMTPR		M M	HMASMTDD HMASMTRM		M	HMASMTPA HMASMTSB	M	HMASMTPO HMASMUC	
DGBUMP DGDATA	HMASMDRV HMASMDRV HMASMDRV	D	М										
OGEXIT OGICR EC OGK	HMASMIO HMASMIO	RW											
OGLIM OGLNTH	HMASMMSG HMASMDRV	D C											
OGMSG OGMVLEN	HMASMDRV HMASMDRV	DRW DWC											
OGPK OGPTNCD	HMASMDRV HMASMLOG	DRWC											
DGSAV DGSTART	HMASMDRV HMASMDRV	DR DR	M										
DGSV DN	HMASMDRV HMASMCPL	DRW	М	HMASMTMJ	DRWC		HMASMTPO	DRW					
DNGMSG DOKFOR	HMASMMSG HMASMMPD	DR		HMASMMPH	DR								
DOPINDX	HMASMTMD HMASMUC1	DPWC											
DOPSW1	HMASMCPL HMASMMPE HMASMMPE	DR											
00P2 00P3 00P4	HMASMMPE HMASMMPE	DR											
OWLIM OWNAME	HMASMASM HMASMZAP												
PAREN	HMASMIKD HMASMASM	ĎС	м	HMASMLKI	DB								
PARENI PARENIA	HMASMCPY HMASMCPY	D	M	HMASMLKD		M							
PAREN2	HMASMCPY	Ď	M	HMASMDRV	D								

MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACC
MEMER MEREMEMENT MEMERATE MEME										
MEMER MEREMEMENT MEMERATE MEME	HMASMCPY	D	HMASMDRV	D M						
MEMERINEMENT MEMOREMENT HMASMDRV	D M									
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMDRV HMASMDRV									
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMDRV	DRMC								
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMTL 2									
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMDRV									
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMAR3	DRW	HMASMCPY	DW	HMASMIDU	DRW	P			
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMPRM	D	HMASMP11	D WC						
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMPRM	D P	HMASMP11 HMASMDSU		HMASMSUB	D.P				
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMTMS	DRWC	111111111111111111111111111111111111111	•		-				
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMDRV									
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMD#V HMASMD#V									
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMIO	Б .,								
MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	HMASMIO HMASMALC	D								
M Y C K C C C C C C C C C C C C C C C C C	HMASMIO	D								
HHMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	HMASMTMS	D MC								
HHMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	HMASMDRV HMASMDRV									
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMDRV									
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMAR3	DRWC								
HHHHHHHHHHMMMMMMMMMMMMMMMMMMMMMMMMMMMM	HMASMIO HMASMTPR	DR DR								
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMTPR	DRWC								
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMTPR	DR								
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMTPR HMASMIO	DRW D								
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMTPR	D MC								
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMTPR	D WC								
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMTPR HMASMTPR									
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMTPR	DRW								
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMIO	DR								
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMTSB HMASMTPR		P							
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMIO	Ď								
HHEMEM MEMEMEMEMEMEMEMEMEMEMEMEMEMEMEMEM	HMASMIO	<u> </u>								
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMDRV HMASMTPR	D C M	P							
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMTPR	č¨	•							
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMTPR	DRWC	P							
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMTPR HMASMTPR	D WC DRWC	P							
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMTPR	D WC								
HHMHMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	HMASMDRY									
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMF PT HMASMD RV									
HHEHHEMMEMEMEMEMEMEMEMEMEMEMEMEMEMEMEME	HMASMRCD	D W								
HENDER MEMORIAN MEMOR	HMASMTL 2 HMASMCCA									
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMCCA	Ř								
HHMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	HMASMTMD	D WC								
HEREMEMENTE METER	HMASML CD HMASMD RV									
HMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	HMASMDRY									
HEMMEM MEM MEM MEM MEM MEM MEM MEM MEM M	HMASMDRV			_		_		_		_
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMASM		HMASMDRV HMASMSTA	R R	HMASMDSU HMASMSUB	R R	HMASMGTA HMASMTBL	R R	HMASMIO HMASMTCL	R
HHMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	HMASMUPD	R	111111111111111111111111111111111111111	•				•		-
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMDRY							D. D. L. G		
RESOLUTION OF THE STATE OF THE	HMASMCIL		HMASMCOM	DRM	HMASMCPI	DRW	HMASMLKI	DRWC		
HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	HMASMDRV	D M								
HEREMEMENTE ENTERNATE ENTE	HMASMCPL	DRW								
HEREMEMEE HEREMEE HERE	HMASMCPL HMASMCIL	DBM	HMASMCOM	DPW	HMASMCPI	DPW	HMASMLKI	DPWC		
HEHEMEMEMEMEMEMEMEMEMEMEMEMEMEMEMEMEMEM	HMASMCIL	DRW	HMASMCOM		HMASMCPI		HMASMLKI			
HEREMEMENTE HEREMENTE HERE	HMASMTMD	DRM							UMAGMI V-	
HEREMENEMENTER HEREMENTER HEREMEN	HMASMCIL	DR DR	HMASMCOM	אט	HMASMCPI	אט	HMASMCPL	DKM	HMASMLKI	UR
HEAM HAME HAME HAME HAME HAME HAME HAME	HMASMCIL	D	HMASMCOM		HMASMCPI			_		
HEMMENT HEMET HMASMCIL	D	HMASMCOM	DR	HMASMCPI	DR	HMASMLKI	D			
89 HMHHMHHMHHMHHMHHMHHMHHMHHMHMHMHMHMHMHM	HMASMLKI HMASMCIL		HMASMCOM	D	HMASMCPI	DR				
9 HM HM HM HM HM HM HM HM HM HM HM HM HM H	HMASMCIL	DR	HMASMCOM		HMASMCPI					
HM HM HM HM HM HM HM HM HM HM HM	HMASMCOM	D					HMASHOS	DBM	UMA CMI VE	n n
HM HM HM HM HM HM HM HM HM HM HM	HMASMCIL HMASMLKI		HMASMCOM	J.K	HMASMCPI	UR	HMASMCPL	URM	HMASMLKI	אט
HM HM HM 0 HM HM	HMASMCOM	D C	HMASMCPI							
HM HM 0 HM HM	HMASMCIL		HMASMCOM		HMASMCPI		HMASMLKI	DR	HMYCMINA	D.P.
0 HM HM HM	HMASMCIL HMASMLKI	ĎR	HMASMCOM	J.K	HMASMCPI	₽ #	HMASMCPL	DEM	HMASMLKI	7
HM HM	HMASMCIL	DR	HMASMCOM	DR	HMASMCPI	DR	HMASMLKI	DR		
HM	HMASMLKI HMASMLKI	D								
	HMASMCOM	ĎŘW I	P HMASMIDU	DRW	HMASMIO	DRW	HMASMLKI	DRW	HMASMSEC	DRM
HM	HMASMTM4	DRW	HMASMTPD	DRW	HMASMTPS	DRW				
CARRY1 HM	HMASMEIS HMASMLCD	D I	HMASMMPE	D MC						
CBUF HM	HMASMASM	D	•							
CCALL HM	HMASMASM	DRWC	UM LANGUE	-	UM A 8 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		UM 1 6115= -	_		
CCOL HM CCTR HM	HMASMGPF HMASMASM	D PWC	HMASMPMG	R	HMASMPRM	R	HMASMRIO	R		
CDCB HM	HMASMIO	DRWC								
CENT HM	HMASMIO	D								
	HMASML ID HMASMMPE		HMASMTM2	חפשכ						
ČK HM	HMASMDRV	D								
CKEY HM	HMASMMPD	D M	HMASMMPE	D M	UMARKET	_	UMAGNET	_		
	HMASMGPF		HMASMPMG	R	HMASMPRM	R	HMASMRIO	R		
CLIST HM	HMASMASM									

DEDEFINITION, REREAD, WEWRITE, CECOMPARE, EEEQUATE OPERAND, MEMACRO, ASABSOLUTE, PEPARAMETER

MBOL	MODULE	ACCES	ss	MODULE	ACCE		<u>L USAGE</u> MODULE	ACCES	S MODULE	ACCESS	MODULE	ACCE
CLPAR		D.	м									
CMSG CNAME	HMASMCPI HMASMGPF	R		HMASMPMG	R		HMASMPRM	R	HMASMRIO	R	HMASMXRF	DR
CNXT CPARM	HMASMASM HMASMCP2	DRWC		HMASMTMS	R							
CPASS CPERIO	HMASMCOM HMASMMPE	D W	м									
CRC	HMASMXPF	DRWC										
CRFE CRFG	OIMZAMH OIMZAMH	DR D										
CRFM CRPAR	HMASMIO HMASMMPE	D	м									
CRTN	HMASMIO HMASMDRV	D	M									
CSAVE	HMASMASM	DRWC										
CSETUP	HMASMCPI HMASMCOM	DR										
CSRCRT CSTART	HMASMIO HMASMASM	D R										
CSV010 CTBL	HMASMASM HMASMASM											
CTBLEX	HMASMASM	DR										
CTYPE	HMASMTM4 HMASMMPE	D			_							
CUKEY CVAL	HMASMMPD HMASMMPE	D D	М	HMASMMPE	D	М						
CX1 C1RC	HMASMXRF HMASMXRF											
C1X	HMASMXRF HMASMXRF	DRW										
ClY INHD1	HMASMFPT	D		HMASMLCD			HMASMLCP					
INHD2 Inhead	HMASMFPT HMASMA ? l	D .		HMASMLCD HMASMAR2			HMASMLCP HMASMIO	B	HMASMRCL	DR		
INRC	HMASMIDU HMASMDRV		м				_					
JOR (EPRNT	HMASMAR1	DR C		HMACMDOLL	D.P.							
PRINT	HMASMDRV HMASMAAR	DR		HMASMDSU HMASMASM			HMASMIO	DR				
.FND .IS	HMASMMPE HMASMMPE		М									
IKEY ILPAR	HMASMMPE HMASMMPE		M									
1RPAR	HMASMMPE	D	M									
IVAL ZKEY	HMASMMPE HMASMMPE	D	M									
.2LPAR .2RPAR	HMASMMPE HMASMMPE	D D	M M									
ZVAL	HMASMMPE HMASMTPO	Ď R	M									
PING	HMASMUXP	R										
RKSUPS	HMASMTMD HMASMLID	D W	_									
SID SIOP	HMASMLC1 HMASMLC1	DR	P									
SK SK2BIT	HMASMCIL HMASMION	DR		HMASMCOM	DR		HMASMCPI	DR	HMASMLKI	DR		
SRC	HMASMLID			HMASMTPL	D	Р						
SS SMRPT	HMASMTPA HMASML ID	DR		AMASMIPL								
SSRC	HMASMLID HMASMAR4	DRWC										
CHSM	HMASMPGC HMASMAAR	DWC		HMASMSUP HMASMALC	DRWC		HMASMARL	R	HMASMAR1	R	HMASMAR 2	R
	HMASMAP3 HMASMBUR	Ř Ř		HMASMAR4 HMASMCIL	Ř R		HMASMASI HMASMCMP	Ř R	HMASMASM HMASMCOM	Ř R	HMASMBUE HMASMCPI	Ř R
	HMASMCPL	R		HMASMCRD	R		HMASMCRW	Ŕ	HMASMDLE	R	HMASMDRV	R
	HMASMDR1 HMASMFPT	R		HMASMDR2 HMASMFVL	R		HMASMDSU HMASMFXF	R	HMASMDS1 HMASMGTA	R R	HMASMEIS HMASMIDU	R
	HMASMLKD	R R		HMASMLCC HMASMLKI	R R		HMASMLCD HMASMLOG	R R	HMASMLC1 HMASMMPD	R R	HMASMLID HMASMMPE	R R
	HMASMMPH HMASMRCD	Ř		HMASMMPI HMASMRCF	Ř		HMASMMPV HMASMRCL	R	HMASMMSG HMASMRDS	Ř	HMASMRCC HMASMREC	Ř
	HMASMREJ	Ř		HMASMPJD	Ř		HMASMSEC	Ř	HMASMSER	Ŕ	HMASMSUB	Ř
	HMASMSUP HMASMTD1	R		HMASMTBL HMASMTEC	R		HMASMTCL HMASMTID	R	HMASMTCR HMASMTL1	R R	HMASMTDD HMASMTL2	R
	HMASMTMD HMASMTM2	R R		HMASMTMJ HMASMTM3	R R		HMASMTMS HMASMTM4	R R	HMASMTMW HMASMTPA	R R	HMASMTM1 HMASMTPC	R
	HMASMTPD HMASMTRM	Ř R		HMASMTPL HMASMTR1	R		HMASMTPO HMASMTSB	Ř R	HMASMTPR HMASMUC1	Ř Ř	HMASMTP2 HMASMUC2	Ř R
	HMASMUC3	R		HMASMUC4	R		HMASMUPD	Ř	HMASMUPI	Ř	HMASMUXC	
ALIAS		D.R		HMASMZAP	R							
COPY	HMASMCMP HMASMRCD	DR DRWC										
DIS	HMASMDR1 HMASMDR1	D										
ENTCT	HMASMGTA HMASMDR1	PWC										
JCL	HMASMASM	ĎR	P	HMASMLKD	D	P	HMASMUPD	DRWC				
NAME	HMASMUPD HMASMCPL	DR		HMASMTMJ	DR		HMASMTPO	DR				
SEQ	HMASMTMW	DRW DR C										
STORE	HMASMTB L HMASMMCB	D		HMASMMPE	R		HMASMREC	С	HMASMTM1	С	HMASMTM2	c
EASLB	HMASMMCB HMASMMCB	00		HMASMMPE HMASMMPE	໌ພ _ຕ			R		•		•
EASSM	HMASMMCB	Ď		HMASMMPE	R		HMASMTM2 HMASMTM2	С				
EDALS	HMASMMCB			HMASMMPE HMASMMPE	W.C		HMASMREC	R C	HMASMTM1	RC		
EDEL		D C		HMASMMPE	WC		HMASMREC	C	HMASMTM1	С	HMASMTM2	С
BEDIST	HMASMMCB HMASMTM4	^D พ		HMASMMPE	W		HMASMTM1	R C	HMASMTM2	R C	EMTMSAMH	R C
	HMASMMCB	D W		HMASMMPE	W		HMASMTM2	R	HMASMTM3	R		
SEDOBJ SEEND	HMASMMCB											

MBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCES
BEFLG2 BEFLG3	HMASMMCB HMASMMCB	D	HMASMMPE	W	HMASMTM1	R C				
BEFLG4 Beflg5 Beind	HMASMMCB HMASMMCB HMASMMCB	D D	HMASMMPE HMASMMPE	M	HMASMTM4 HMASMREC	w _C	HMASMTM1	С	HMASMTM2	С
BEJASM	HMASMTM3 HMASMMCB HMASMMCB	D C	HMASMMPE HMASMMPE	W	LMTM2AMH LMTM2AMH	R				
BEJCPY	HMASMMCB	D	HMASMMPE	W	HMASMTMJ	Ě				
BELASM	HMASMMCB HMASMMCB	D	HMASMMPE HMASMMPE	M	HMASMTMJ HMASMTMJ	ŘC				
BELCPY Belemp	HMASMMCB HMASMMPE	DRW	HMASMMPE HMASMREC	R R	HMASMTMJ HMASMTMD	R C	HMASMTMJ	R	HMASMTM1	R
BELEPM	HMASMTM2 HMASMMCB	P	HMASMTM3 HMASMMPE	R	HMASMTM4 HMASMTM4	RW W				
BELKLB	HMASMMCB	D	HMASMMPE	W	HMASMREC	R C	HMASMTM1	R C		
BELLKD BELMOD	HMASMMCB HMASMMCB	D	HMASMMPE HMASMMPE	R	HMASMTMJ HMASMTM1	С				
BELUPI BENAME	HMASMMCB HMASMMCB	D	HMASMMPE HMASMMPE	RWC	HMASMTMJ HMASMREC	R C R C	HMASMTMD	R F		_ W
BEND	HMASMMCB HMASMTM3	D _R	HMASMMPE HMASMTM4	MC MC	HMASMREC	R	HMASMTM1	R	HMASMTM2	R
BENE Bentry	HMASMMCB HMASMMCB		HMASMMPE HMASMMPE	MC MC	HMASMREC	R	HMASMTM1	R C		
BENUM	HMASMMCB	Ď	HMASMMPE	W		•		. •		
BEOVLY Bepaga	HMASMMCB HMASMMCB	D	HMASMMPE HMASMMPE	MC						
BEREFR Berent	HMASMMCB HMASMMCB		HMASMMPE HMASMMPE	MC MC						
BEREUS Berlf	HMASMMCB HMASMMCB		HMASMMPE HMASMMPE	MC MC	HMASMREC	R C	HMASMTMJ	R C	HMASMTM1	R C
	HMASMTM2 HMASMMCB	RC	HMASMTM3 HMASMMPE	RC	HMASMTMD					
BERMID Berrtp	HMASMMCB	D	HMASMMPD	R	HMASMREC	Ř				
BESCTR Bessi	HMASMMCB HMASMMCB		HMASMMPE HMASMMPE	MC MC	HMASMTM2	R	HMASMTM3	R		
BESTD Besys	HMASMMCB HMASMMCB		HMASMMPE HMASMMPE	MC MC	HMASMTM2	R	HMASMTM3	R		
BETXLB	HMASMMCB HMASMTM2	D	HMASMMPE HMASMTM3		HMASMREC	C	HMASMTMJ	RC	HMASMTM1	R C
BEVERS	HMASMMCB	D	HMASMMPE	R	HMASMTM1	_ c	HMASMTM2	_ c	HMASMTM3	С
BEVLST Biend	HMASMMCB HMASMMCB		HMASMTM1	R	HMASMTM2	R	HMASMTM3	R		
BIFENV Bifmp	HMASMMCB HMASMMPI	D _R	HMASMMPI HMASMREC	R	HMASMREC HMASMTMD	R C	HMASMTPC HMASMTPC	R R C		
BIFREQ BIFTP	HMASMMCB HMASMMCB	D	HMASMMPI HMASMMPI	R	HMASMTPC HMASMREC	C	HMASMTPC	С		
BIIND	HMASMMCB	D	HMASMTPC	С		-	III AGITTE	·		
BIND Bintry	HMASMMCB HMASMMCB	D	HMASMMPI	W	HMASMTPC	R				
BINUM Biop	HMASMMCB HMASMTPC		HMASMTPC	R						
BIVLST BJCLTP	HMASMMCB HMASMMCB	D	HMASMMPI HMASMMPE	R	HMASMRCD	С	HMASMREC	С	HMASMTMJ	С
BMCRTP	HMASMMCB	D	HMASMMPE		HMASMRCD	č	HMASMREC	č	HMASMTMD	č
BMCUTP	HMASMTM2 HMASMMCB	D	HMASMMPE	R	HMASMREC	ç	HMASMTMD	C	HMASMTM2	C
BMODTP BPNO	HMASMMCB HMASMMCB	D	HMASMMPE HMASMMPH	W	HMASMRCD HMASMREC		HMASMREC	C	HMASMTMD	C
BPRELN BPROC	HMASMMCB HMASMTM2		HMASMMPH HMASMTM3	P.W D.R	HMASMREC	R				
BPTFMP	HMASMMPD HMASMREC	R R	HMASMMPE HMASMTMD	R R	HMASMMFH HMASMTMJ	R R	HMASMMPI HMASMTM1	R R	HMASMMPV HMASMTM2	R R
BPTFTP	HMASMTM3 HMASMMCB	R	HMASMTM4 HMASMMPH	Ř	HMASMTPC	R				
BPTP	HMASMMCB	D	HMASMMPH	ŘМ	HMASMREC	R				
BPTR BSCRTP	HMASMTMD HMASMMCB	D	HMASMTMJ HMASMMPE	DRW	HMASMRCD	С	HMASMREC	С	HMASMTMD	С
BSCUTP	HMASMTM3 HMASMMCB	ьс	HMASMMPE	R	HMASMREC	С	HMASMTMD	С	HMASMTM3	С
BSFMID BTYPE	HMASMMCB HMASMMCB	D	HMASMMPV HMASMMPD	RW W	HMASMREC HMASMMPE	RUC	HMASMTPC HMASMMPH	Rw	HMASMMPI	W
51176	HMASMMPV	ٽ س _د	HMASMPEC	RÎC	HMASMTMD		HMASMTMJ	~c	HMASMTMI	~c
BVEND	HMASMTPC HMASMMCB	D		_		_				
BVERMP BVERTP	HMASMMPV HMASMMCB	D	HMASMREC HMASMMPV	R	HMASMTMD HMASMREC	R C	HMASMTPC HMASMTPC	R C		
BVIND BVND	HMASMMCB HMASMMCB		HMASMREC HMASMMPV	M _C	HMASMREC	R				
BVNTRY BVNUM	HMASMMCB HMASMMCB	D	HMASMREC HMASMREC	RC						
BVVLST	HMASMMCB	D	HMASMMPV	R	UM 4 6 M D E 6	•	UMAGMEND	•	UMAGMEMI	С
BZAPTP LBLINE	HMASMMCB HMASMLCD	D	HMASMMPE	R	HMASMREC	С	HMASMTMD	С	HMASMTM1	C
S SCHECK	HMASMEIS HMASMREC		HMASMLID	DR						
SENTRY	HMASMLID HMASMTMD									
SKI	HMASMDRV HMASMLCP									
SLINE SSAV	HMASMDRV	D M								
T R J	HMASMTL1 HMASMEIS	D								
ATE DLBGTP	HMASML OG HMASML KD									
DLBRCD LBLINE	HMASMLKD HMASMLCD	D								
NN LMAP	HMASMMCD HMASMIOP	Ď W _C								
MAPTEX	T2	D .								
LMAP1	HMASMIOP HMASMIOP	Ď								
LMAP2 M	HMASMIOP HMASMEIS	D								
MBR MBRNAM	HMASMTMD HMASMD L E	DR I								
1K	HMASMCPY									

MCBEFLG2 - MEMK

YMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
1EMMSG 1EMNAME 1EMNM010 1EMNM020	HMASMIO HMASMBDL HMASMCPY HMASMCPY	DR M	HMASMIO	DRW	HMASMLKI	DRWC				
1EMPOS 1EMPEC	HMASMBDL HMASMBDL	D								
1EMUSE 1END	HMASMEIS	R	UMA CMTMI.							
IERGE IERGEWRK IF	HMASMTMD HMASMTMW HMASMIO		HMASMTMW							
FNN GPCLEAR	HMASMMCD HMASMAAR		HMASMALO		HMASMASI	RW	HMASMBDL	RW	HMASMBUE	ы
OF OLLAR	HMASMBUR HMASMDR1	ũ	HMASMCOM HMASMDR2	I W	HMASMCPI HMASMDSU	`₩ RW	HMASMCPL HMASMDS1	W	HMASMDRY	' RW
	HMASMIDU HMASMMPI		HMASMIO HMASMRCC	: W	HMASMLKI HMASMRCD	W	HMASMMGP HMASMRCF		HMASMMPE HMASMRDS	W
	HMASMREC HMASMTMD	W	HMASMRE J HMASMTM J	W	HMASMTCL HMASMTMS	RW W	HMASMTCR HMASMTM2	RW	HMASMTL 2 HMASMTM3	RW
	HMASMTPO HMASMUPI	RW	HMASMUC1 HMASMUXC	: W	HMASMUC3 HMASMZAP	RW RW	HMASMUC4	W	HMASMUPE	W
GPDEC GPERR	HMASMASH	R R R	HMASMMGP HMASMAL C	R	HMASMASI	R	HMASMBUE		HMASMCP1	
	HMASMCPL HMASMMPD HMASMMSG	R	HMASMDRV HMASMMPE HMASMRCO	R	HMASMIO HMASMMPH HMASMRCD	R R R	HMASMLKI HMASMMPI HMASMRCF	R	HMASMMGF HMASMMP\ HMASMREO	/ R
	HMASMRE J HMASMTMJ	R	HMASMTCR HMASMTMS	R	HMASMTDD HMASMTM1	Ř	HMASMTL 2 HMASMTM2	R	HMASMTME	RC
	HMASMTRM HMASMUPI	R	HMASMUC1 HMASMUXC	R	HMASMUC3 HMASMVLU	Ř R	HMASMUC4	R	HMASMUP	
GPFIXED GPFLAGS	HMASMIO HMASMMGP	D	HMASMMGP HMASMRCC	D	HMASMMSG HMASMRCD	D W	HMASMRCF		HMASMTCL	. W
GPHLDS	HMASMTCR HMASMAAR	W	HMASMTMD HMASMAL C	W	HMASMTMS HMASMARL	W	HMASMASI	W	HMASMBDL	. W
	HMASMBUE HMASMDRV	W W	HMASMBUR HMASMDR1	. W	HMASMCOM HMASMDR2	W W	HMASMCPI HMASMDSU	W	HMASMCP L	. W
	HMASMEIS		HMASMGTA HMASMMGP	D	HMASMIDU HMASMMPD	ä_	HMASMIO HMASMMPE		HMASMLKI	W W
	HMASMMPI HMASMRCF HMASMSUB	W	HMASMMPV HMASMRDS HMASMTBL	. W	HMASMMSG HMASMREC HMASMTCL	C	HMASMRCO HMASMRE J HMASMTCR	W	HMASMRCE HMASMSER HMASMTL1	W
	HMASMTL 2 HMASMTM2	3 3 3	HMASMTMD HMASMTM3	Ŵ	HMASMTMJ HMASMTM4	W W	HMASMTMS HMASMTPO	W	HMASMTM1 HMASMTRN	. W
	HMASMUC1 HMASMUXC	W	HMASMUC3	W	HMASMUC4 HMASMZAP	W	HMASMUPD		HMASMUPI	
GPINFO	HMASMAAR HMASMCPL	R R	HMASMAL C	R	HMASMASI HMASMDRV	R R	HMASMCOM HMASMDR1		HMASMCP1 HMASMDR2	
	HMASMDSU HMASMRCC	R	HMASMEIS HMASMRCD	R	HMASMIO HMASMRCF	R R	HMASMLKI HMASMREC	R	HMASMMGF HMASMRE	J R
	HMASMTC L HMASMTPO		HMASMTCR HMASMTRM	I R	HMASMTMD	R	HMASMTM J HMASMUC 3		HMASMTMS HMASMUC4	
GPLIST	HMASMUPD HMASMMGP	D	HMASMUPI	C	HMASMZAP	R	UM 1 6 M 1 6 T		UMAGMBBI	
GPMGN01	HMASMAAR HMASMBUE	W	HMASMALC	W	HMASMARL	W W	HMASMASI HMASMCPI	W	HMASMBDL	. W
	HMASMDLE HMASMDS1 HMASMLKI	M M	HMASMDRV HMASMEIS HMASMLOG	: W	HMASMDR1 HMASMGTA HMASMMGP	, W	HMASMDR2 HMASMIDU HMASMMPD	W W	HMASMDSU HMASMIO HMASMMPE	W
	HMASMMPH HMASMRCD	ũ	HMASMMPI HMASMRCF		HMASMMPV HMASMRDS	ŭ W	HMASMMSG HMASMREC	DR C	HMASMRCO HMASMRE	W
	HMASMSER HMASMTMD	W W	HMASMSUB HMASMTMJ	W	HMASMTCL HMASMTMS	W	HMASMTCR HMASMTM1	W	HMASMTL 2 HMASMTM2	W
	HMASMTM3 HMASMUC4	W	HMASMTPO HMASMUPD	W	HMASMTRM HMASMUPI	M	HMASMUC1 HMASMUXC	W	HMASMUC3 HMASMVLU	
GPMGNO2	HMASMZAP HMASMAAR	W	HMASMALO	W	HMASMASI	W	HMASMBDL	W	HMASMBUE	W
	HMASMCOM HMASMEIS	W	HMASMCPL HMASMIO	W	HMASMD L E HMASMMGP	D	HMASMDRV HMASMMPD	W	HMASMDSU HMASMMPE	. W
	HMASMMPH	W W	HMASMMPI HMASMPEC	W	HMASMMPV HMASMPEJ	W	HMASMMSG HMASMTCL	W	HMASMRCO	W
GPMGN03	HMASMTL 2 HMASMUC1 HMASMAAR	W W	HMASMTMD HMASMUC3 HMASMALC	W	HMASMTMJ HMASMUC4 HMASMBDL	W	HMASMTMS HMASMUPD HMASMCOM	W	HMASMZAF HMASMZAF HMASMCPI	
JenighU3	HMASMALE HMASMLKI	W W	HMASMDRV HMASMMGP	W	HMASMDSU HMASMMPD	W W	HMASMEIS HMASMMPE	W	HMASMIO HMASMMPH	W
	HMASMMPI HMASMUC1	ũ W	HMASMMPV HMASMUC3	W	HMASMPCC HMASMUC4	ũ	HMASMRCÖ HMASMZAP	W	HMASMREC	
PNUMVR	HMASMAAR HMASMBUE	P	HMASMAL C	R	HMASMARL HMASMCIL	D	HMASMASI HMASMCOM	D	HMASMBD L HMASMCP I	D
	HMASMCPL HMASMDSU	D _R	HMASMDLE HMASMDS1	D _R	HMASMDRV HMASMEIS	R	HMASMDR1 HMASMGTA	D	HMASMDR 2 HMASMIDU	Ď
	HMASMIO HMASMMPE		HMASMLKI HMASMMPH	D	HMASMLOG HMASMMPI	D	HMASMMGP HMASMMPV	D	HMASMMPD	R
	HMASMRCC HMASMREC HMASMTAD	D	HMASMRCD HMASMREJ HMASMTAI	D	HMASMRCF HMASMSER HMASMTBL	D D	HMASMRCL HMASMSTA HMASMTCL	. D	HMASMRDS HMASMSUE HMASMTCR	D
	HMASMTDD HMASMTMJ	D	HMASMTD1 HMASMTD1	. D	HMASMTL1 HMASMTM1	D.	HMASMTL2 HMASMTM2	R	HMASMTMD	D
	HMASMTM4	D	HMASMTPA HMASMTP2	D	HMASMTPC HMASMTRM	Ď	HMASMTPL HMASMTSB	Ď	HMASMTPO HMASMUC1	D .
	HMASMUC2 HMASMUXC	D	EDUMZAMH UJVMZAMH	D	HMASMUC4 HMASMZAP	P	HMASMUPD	D	HMASMUPI	R
SPPRINT	HMASMAAR HMASMBUE	W	HMASMAL C	W	HMASMAR L HMASMCOM	W	HMASMASI HMASMCPI	W	HMASMBD L HMASMCP L	W
	HMASMDLE HMASMDS1	W W	HMASMDRV HMASMEIS	: W	HMASMDR1 HMASMGTA	, W	HMASMDR2 HMASMIDU	W	HMASMDSU HMASMIO	W
	HMASMLKI HMASMMPH HMASMRCD	M M	HMASMLOG HMASMMPI HMASMRCF		HMASMMGP HMASMMPV HMASMRDS	D 33	HMASMMPD HMASMMSG HMASMREC	C	HMASMRCC HMASMRC HMASMRE	W
	HMASMSER HMASMTL1	W W	HMASMSUB HMASMTL 2	W	HMASMTBL HMASMTMD	W	HMASMTCL HMASMTMJ	W	HMASMTCR HMASMTMS	W
	HMASMTM1 HMASMTRM	W	HMASMTM2 HMASMUC1	W	HMASMTM3 HMASMUC3	M	HMASMTM4 HMASMUC4	W	HMASMTPO	W
GPRPT	HMASMUPI HMASMMGP	DW	HMASMUXC HMASMMSG	W _C	HMASMVLU	W	HMASMZAP	W		
GPSEV	HMASMALC HMASMEIS		HMASMAR L HMASMGTA		HMASMCPL HMASMIO	R R	HMASMDRV HMASMLOG		HMASMDR1 HMASMMGP	D.R

			SYMB	OL USAGE		
SYMBOL	MODULE	ACCESS	MODULE ACCESS	MODULE ACCESS	MODULE ACCESS	MODULE ACCESS
						-
MGPSEV	HMASMMSG HMASMTCR		HMASMRDS R HMASMTMD R C	HMASMREC R C HMASMTMS C	HMASMSUB R HMASMTPO R	HMASMTCL R HMASMUPD R
MGPTERM	HMASMUXC	R	HMASMBDL R	HMASMCOM R	HMASMDRV R	HMASMDSU R
HGF I ERH	HMASMDS1 HMASMSER	R	HMASMIO R HMASMIMD C	HMASMMGP D HMASMTMS C	HMASMMSG C HMASMUPD R	HMASMREC C HMASMUXC R
MGPTYPE	HMASMAAR HMASMBUE	W	HMASMALC W HMASMBUR W	HMASMARL W HMASMCOM W	HMASMASI W HMASMCPI W	HMASMBDL W HMASMCPL W
	HMASMDLE HMASMDS1	W	HMASMDRV W HMASMEIS W	HMASMORI W HMASMGTA W	HMASMDR2 W HMASMIDU W	HMASMOSU W HMASMIO W
	HMASMLKI HMASMMPH	W	HMASMLOG W HMASMMPI W	HMASMMGP D HMASMMPV W	HMASMMPD W HMASMMSG R C	HMASMMPE W HMASMRCC W
	HMASMRCD HMASMSER	W	HMASMRCF W HMASMSUB W	HMASMRDS W HMASMTCL W	HMASMREC WC	HMASMREJ W HMASMTDD W
	HMASMTL 2	W	HMASMTMD WC HMASMTM3 W	HMASMTMJ W HMASMTPO W	HMASMTMS WC HMASMTRM W	HMASMTM1 W HMASMUC1 W
	HMASMUC3	W	HMASMUC4 W HMASMZAP W	HMASMUPD W	HMASMUPI W	HMASMUXC W
MGPVAR	HMASMMGP	D		HMASMASI W	HMASMBDL W	HMASMBUE W
MGPVARPT	HMASMAAR HMASMBUR	W	HMASMCOM W	HMASMCPI W	HMASMOPL W HMASMOSU W	HMASMDLE W HMASMDS1 W
	HMASMDRV HMASMEIS	W	HMASMIDU W	HMASMIO W	HMASMLKI W	HMASMMGP D
	HMASMMPD HMASMMSG	R	HMASMRCC W	HMASMRCD W	HMASMMPI W HMASMRCF W	HMASMREC W
	HMASMRE J HMASMTMD	W	HMASMSER W HMASMTMJ W	HMASMTCL W HMASMTMS W	HMASMTCR W HMASMTM1 W	HMASMTM2 W
	HMASMTM3	W	HMASMTPO W HMASMUPD W	HMASMTRM W HMASMUPI W	HMASMUC1 W HMASMUXC W	HMASMUC3 W HMASMVLU W
MGPWARN	HMASMZAP HMASMALC	: R	HMASMASI R	HMASMBUR R	HMASMCOM R HMASMLKI R	HMASMCPI R HMASMMGP D
	HMASMDS1 HMASMREC	C	HMASMIDU R HMASMREJ R	HMASMIO R HMASMICL R	HMASMTL2 R	HMASMTMD C
	HMASMTMS HMASMUPI	R	HMASMTPM R HMASMVLU R	HMASMUC1 R HMASMZAP R	HMASMUC3 R	HMASMUPD R
MGPWTO MGPWTOR	HMASMMGP HMASMDSU	ı W	HMASMMSG C HMASMMGP D	HMASMREC W HMASMMSG C	HMASMTMS W HMASMREC W	HMASMTMS W
MGPFREEA MGRFREEL	HMASMTBL HMASMTBL	DRW	_			
MGRFUNCT MGRPTFX	HMASMTB L HMASMTB L	DRW	P			
MGRRC MHEAD	HMASMTBL HMASMIO	D W				
MI Midapar	HMASMTL3 HMASMAR3	DRW				
MIDEMCS MIDENAME	HMASMAR3 HMASMAR3	DRW				
MIDENTRY MIDIX	HMASMAR3 HMASMIDU	DR	P			
MIDLPTR Midlsptr	HMASMAR3 HMASMIDU	DR	P			
MIDPTF# MIDSTAT	HMASMAR3 HMASMAR3	D WC				
MIDTYPE Min	HMASMAR3 HMASMDSU	R	HMASMFPT R	HMASMTCL R	HMASMTPR R	
MINICT MINORD#	HMASMTB L HMASMTMD	D WC				
MIOPD MIOPT	HMASMUC1 HMASMUC1	D W				
MK MJ	HMASMTMD HMASMCPY	D				
MLABELK MLENTRY	HMASMASM HMASMD L E	DR	p			
MLMI Mlptr	HMASMTL3 HMASMAR3	DRW				
MM MMALL	HMASMDLE HMASMLID	D W	HMASMIO D W	HMASMREC DRW	HMASMTMD DRW	HMASMTMS DRW
MMASM MMDLB	HMASMLID HMASMLID	D WC				
MMFMD MMHD1	HMASMLID HMASMLID					
MMLINES MMLIST	HMASMLID HMASMLID	D				
MM L MD MMMAC	HMASMLID HMASMLID	D WC				
MMMCS MMMOD	HMASMLID HMASMLID	D MC				
MMNAME MMSG	HMASMLID HMASMLOG	R				
MMSMD MMSRC	HMASMLID HMASMLID	D WC				
MMSYS MMTBL	HMASMLID HMASMLID	D WC	UM 184 F			NUMARKEE & C
MOD MODADDLP	HMASMDLE HMASMUC1	DR	HMASMEIS D	HMASMMPE D WC	HMASMTBL D	HMASMTBM D C
MODADDR MODALMOD	HMASMCPI HMASMTM1	DRWC	P HMASMTMD DRW HMASMTM2 D	HMASMTRM DRW HMASMTM3 D		
MODARRY1 MODCENT	HMASMLCD HMASMTL1	ĎR i				
MODCHAIN MODCHK	HMASMTRM HMASMLKI	DR	HMASMTL1 DR			
MODCNDX	HMASMTL1 HMASMCMP	DR				
MODCPL MODCRC	HMASMCPL HMASMTL1	DRW	HMASMTRM DRW			
MODCSKIP MODCSMD	HMASMTL1 HMASMTRM	DR				
MODENT MODENTO	HMASMDLE HMASMIDU	DR C	P P HMASMLTD DR	HMASMIND DB .	P HMASMTRM DR	•
MODENTRY MODERR MODEND	HMASMDLE HMASMASM HMASMMPE	DR C	P HMASMLID DR HMASMTM1 D WC	HMASMTMD DR F	P HMASMTRM DR	
MODICT MODICT	HMASMASI HMASMDLE	DR	P HMASMCMP DR	P HMASMTM3 DR		
MODICTE Modid Modidchk	HMASMTPS HMASMAAR	D C	HMASMTM2 DR	HMASMTM3 DR	HMASMTRM DR	
MODIDERR	HMASMAR 2		magning Dr	MARGETTIS OR	MANUAL DE	
D=DEFINIT	ION, R=RE	AD, W=WR	ITE, C=COMPARE, E=	EQUATE OPERAND, M=N	MACRO, A=ABSOLUTE,	P=PARAMETER

					_		LUSAGE								
MBOL	MODULE	ACCESS	; 	MODULE	ACCE	s s 	MODULE	ACCESS	<u>.</u>	MODULE	ACCES		MODULE	ACCE	S S
DIDLOC	HMASMAR3														
DIDOK Didick	HMASMAR2 HMASMTRM	DR DR													
DIFY	HMASMAAR HMASMTRM	DR DRW													
DIX	HMASMCMP	DRW		HMASMTCL	DR										
DIX1 DIX2	HMASMTRM HMASMTRM	DRW													
DI1PRC DK	HMASMTRM HMASMASM	DRWC M	,	HMASMDRV	D										
DKEY DKEYGT	HMASMLKD HMASMLKD	DR C		HMASMMPD		M	HMASMMPE	D							
DKEYPT	HMASMLKD	DRW													
DL Dlpar	HMASMZAP HMASMMPE	00 6													
DMPTR Dname	HMASMTMD HMASMASM	DRW DRWC		HMASMTRM HMASMTMD			HMASMTRM	D WC							
NMF ND	HMASMMPE HMASML KD		ı												
NMGT2	HMASMLKD	DR													
PARM PERIO	HMASMUPI HMASMMPE	DR M	1						_			_			
DPTR	HMASMAR 2 HMASMD L E	DRWC	P	HMASMIDU HMASMXRF		P	HMASMTID	DR	P	HMASMTMW	DR	P			
DRPAR	HMASMMPE HMASMCMP	D M													
DSAV	HMASMDRV	D M	ı												
DSCAN DSCPTR	HMASMMPE HMASMTMD	DR	P												
DSEL DSMD ð	HMASMDLE HMASMTMD	D WC		HMASMTRM	DRW										
SPTR SRC	HMASMTMD HMASMTMS	DRW DR		HMASMTRM	DRW										
SRCA	HMASMTMD HMASMTMS	DR DR		HMASMTRM	DR										
osv	HMASMASM	D M	1												
DTYPE Dule	HMASMTAD HMASMLID	D _R C													
DULES	HMASMAR3 HMASMMPE	D MC													
XPND X1	HMASMTMS HMASMXRF	DR DRW													
DIACFO	HMASMTRM	D WC	2												
DIACRÐ Diamid	HMASMTRM HMASMTRM	DRM	P												
D1BOTH D1CDF0	HMASMTRM HMASMTRM	DRWC	P												
DICDRA DICMID	HMASMTRM HMASMTRM	DRW	P												
DIDONE	HMASMTRM HMASMTRM	D WC	P												
DIERT Dierr	HMASMTRM	D WC	-												
D1FLGS D1FNDA	HMASMTRM HMASMTRM	BW													
D1RC D1X1	HMASMTRM HMASMTRM	DRW DRW													
DIX2 PUPRTN	HMASMTRM HMASMTCL	DRW													
REDATA	HMASMDRV	D M	ı												
VLMDX VMODIX	HMASMTBM HMASMTBM	DRW													
VMODX VPTFIX	HMASMTBM HMASMTBM	DRW DRW													
VPTFX VTBEND	HMASMTBM HMASMTBM	D R W													
DCODE	HMASMMPD HMASMREC	DRWC													
E	HMASMMPD	DR C													
ECODE Elopbo	HMASMMPE HMASMMPE	DRWC DR													
EPROCS ESCAN	HMASMMPE HMASMMPE	DR DR													
ESETUP	HMASMMPE HMASMMPD	DR C													
HCODE	HMASMMPH HMASMMPD	DRW DR C													
IEOLST	HMASMMPI	DR													
IPROCS IRTNOD	HMASMMPI HMASMMPI	DRWC .													
P	HMASMMPD HMASMPRM	c ^M	ı	HMASMMPE HMASMREC		M	HMASMMPH HMASMTMD	M		HMASMMPI HMASMTMJ		M	HMASMMPV HMASMTPC		ŀ
PCRDAD	HMASMMPE HMASMTMD	R _W		HMASMMPH	RW		HMASMMPI HMASMTPC	RW		HMASMMPV	R		HMASMREC	W	
PCRDPM	HMASMMPD HMASMREC	₽ W		HMASMMPE HMASMTMD	P.W		HMASMMPH HMASMTMJ	R.W		HMASMMPI HMASMTPC	RW		HMASMMPV	R	
PIOPAD	HMASMMPE	RC		HMASMMPH	R C		HMASMMPV	R [™] C		HMASMREC	ũ		HMASMTMD	W	
PMCBAD	HMASMTMJ HMASMMPD	R.		HMASMTPC	, W		HMASMMPH	R.,		HMASMMPI	R.		HMASMMPV	R	
PPARM	HMASMREC HMASMMPD	M	P	HMASMTMD HMASMMPE	W	P	HMASMTMJ HMASMMPH	W	P	HMASMTPC HMASMMPI	W	P	HMASMMPV		
SMDNM	HMASMREC HMASMMPI	_R W	P	HMASMTMD HMASMMPV	RW	P	HMASMTMJ HMASMTMD	¥	P	HMASMTPC HMASMTMJ	W	P	HMASMTPC	W	
TFRC TR	HMASMARI HMASMDLE	PRWC	P	HMASMIDU		P									
VPROCS	HMASMMPD HMASMMPV	DR C	,			•									
VRTNCD	HMASMMPV	DRWC													
VSW Elbuf	HMASMMPV HMASMTRM	D _R W													
ELGTP G	HMASMTRM HMASMTCR	BRW _C	P	HMASMTMD	D	P									
GABM1 GABM2	HMASMTBL HMASMTBL		P		-	•									
GABM3	HMASMTBL	DR	þ												
SACDS SAPAR	HMASMTMS HMASMREC	DR DR													
BASSEM	HMASMTMS	DR													

MODIDLOC - MSGASSEM

					e v M	BO	LUSAGE						
SYMBOL	MODULE	ACCESS		MODULE	ACCESS	90	MODUL E	ACCESS		MODULE	ACCESS	MODULE	ACCESS
			-			-			-				
MSGATCL	HMASMTBL		P										
MSGATDD MSGATL1	HMASMTBL	DR	P P										
MSGATL2 MSGATL3	HMASMTBL HMASMTBL	DR	P										
MSGATMD MSGATMJ	HMASMTBL HMASMTBL	DR	P										
MSGATPD MSGATPO	HMASMTBL HMASMTBL	DR DR	Þ										
MSGATRM MSGBCMP	HMASMTBL HMASMTPR	DR DR	P										
MSGBYP MSGCDS	HMASMTCL HMASMTMS	DR DR											
MSGCODE1 MSGCODE2	HMASMREC HMASMREC	DR	P	HMASMTMD HMASMTMD		P	2MTM2AMH 2MTM2AMH		P				
MSGCODE3 MSGDD	HMASMREC HMASMDR1	DR C	P	MILASITIO		•		5 5	•				
MSGDEL	HMASMREC	DR	-										
MSGEND MSGENT	HMASMDC1 HMASMREC												
MSGENTRY MSGFMID	HMASMTMD HMASMREC	D R		HMASMTCR	D		HMASMTMD	DR					
MSGFUNC MSGHDR	HMASMREC HMASMMSG	DW											
MSGHDRHL MSGHDRNO	HMASMMSG HMASMMSG	DRW											
MSGHDRSV MSGHDRZN	HMASMMSG HMASMMSG	DRW											
MSGIFREQ MSGLEN	HMASMTCL HMASMLOG	DR R		HMASMTCR HMASMMSG	DR C								
MSGMAC MSGMACR	HMASMTMD HMASMREC	D R D R		HMASMTMS	DR								
MSGMACU MSGMCS	HMASMREC HMASMTMD	DR DR		HMASMTMD	DR		HMASMTMS	DR					
MSGMOD MSGNDX	HMASMDLE HMASMMSG	DR		HMASMREC	DR		HMASMTMD	DR		HMASMTMS	DR		
MSGNO MSGNPRE	HMASMMSG HMASMREC	DRW											
MSGNULL MSGOPT	HMASMTCR		P										
MSGOUT MSGPARM	HMASMPCL HMASMTPD	D WC	P										
MSGPARTS	HMASMUC1 HMASMRCC	DW	P	HMASMUC1	D B W	P							
MSGPART1 MSGPART2	HMASMRCC	DR C	Ē	HMASMUC1 HMASMUC1	DRW	-							
MSGPART3 MSGPRE	HMASMRCC HMASMREC	DR	-	HMASMTCL	DR		HMASMTCR	DR		HMASMTMD	DR		
MSGPROC MSGPTF	HMASMSER HMASMREC	DR DR											
MSGPTR MSGPTS	HMASMMSG HMASMREC	DR		HMASMTMD	DR								
MSGRC MSGREQ	HMASMEIS HMASMREC	DR		HMASMTCL	DR		HMASMTCR	DR					
MSGRMID MSGRTNCD	HMASMTMS HMASMMSG HMASMTMS	DRWC											
MSGSEL MSGSETUP	HMASMRCC	DR		UMAGMEND	D.D.J.		UMAGNTMG	D.B.J.					
MSGSMDNM MSGSMDN8	HMASMREC HMASMTMD			HMASMTMD			HMASMTMS	DRW					
MSGSRC MSGSRCR	HMASMTMD HMASMREC	DR		HMASMTMS									
MSGSRCU MSGSUP	HMASMREC HMASMREC	DR		HMASMTMD	UR		HMASMTMS	UR					
MSGSYS MSGTEXT	HMASMREC HMASMMSG	DR	_										
MSGTXT MSGUMID	HMASMASM HMASMTMS	D WC	P										
MSGUSER MSGVERS	HMASMREC HMASMREC	DR DR											
MSGXCDS MSGXCDSA	HMASMTMS HMASMTMS	D			_								
MSGZAP MSG382I	HMASMREC HMASMTMS	D WC	_	HMASMTMD	D		HMASMTMS	DR					
MSL MSLAN s	HMASMTMD HMASMTMD	DC	P										
MSLSYSMD MSLSYSMD	HMASMTMD HMASMTMD	D C	P										
MSUPSMD MTIME	HMASMTMD HMASMLOG	R	P										
MTS MTSDDCB	HMASMDR1 HMASMIO	DR. D	P	HMASMIO	DR								
MTSDENT MTSDRTN	OIMZAMH	D											
MTSENT MTSIDCB	HMASMIO Hmasmio	D											
MTSODCB MTSRTN	HMASMIO HMASMIO	B											
MTSSTS MTYPE	HMASMAAR	D R D R		HMASMIDU	DRW								
MTYPEVAR MTYPINDX	HMASMAR 2 HMASMIDU HMASMAR 2	DRW											
MULTIZAP MUTXERR	HMASMTMS HMASMMPE	D WC											
MVCL MVCL FMAD	HMASMGTA HMASMGTA	R		HMASMTAD	R		HMASMTAI	R		HMASMUC2	R		
MVCLEMLN MVCLLEN	HMASMGTA HMASMGTA	DRW DRW											
MVCLOP MVCLTOAD	HMASMUC2 HMASMGTA	DR											
MVCLTOLN MVCTR	HMASMGTA HMASMTBM	DRW DRW											
MVLEN MVSIZE	HMASMALC HMASMEIS	DRW		HMASMRDS	DRW								
MVSTRT MVZ	HMASMALC HMASMRCD	DRW											
MX MXOUTGTP	HMASMZAP HMASMTRM	DR DRW	P										
						• •			•				

DEDEFINITION, REREAD, WEWRITE, CECOMPARE, EEEQUATE OPERAND, MEMACRO, AEABSOLUTE, PEPARAMETER

				SYMBO	L USAGE					
SYMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE ACC	ESS
X1 IYCASE	HMASMCPL HMASMLOG									
YIOP	HMASMAR1	D	HMASMAR 2	DR	HMASMAR3		HMASMAR4	DR	HMASMRCL D	
1	HMASMCIL HMASMSEC		HMASMCPL HMASMTAD	M	HMASMPMG HMASMTAI	R C	HMASMPCD HMASMTBL	M M	HMASMRCF HMASMTDD	M
	HMASMTMS HMASMTRM	M	HMASMTPA HMASMTSB	M M	HMASMTPC HMASMUC2	M	HMASMTPL	M	HMASMTPR	M
AANS	HMASMTRM HMASMTRM	D W P								
AFMFND	HMASMTRM	D WC								
LAPART LARC	HMASMTRM HMASMTRM	DRW								
LARMFND LASMD	HMASMTRM HMASMTRM	D _p WC								
LAUMFND	HMASMTRM	D								
1AUMID 1CANS	HMASMTRM HMASMTRM	DW P								
1CD\$ 1CFMFND	HMASMTRM HMASMTRM									
ICPART ICRC	HMASMTRM HMASMTRM									
1CRMFND	HMASMTRM	D WC								
LCSMD LCUMFND	HMASMTRM HMASMTRM									
1CUMID 1faans	HMASMTRM HMASMTRM									
1 FAPART	HMASMTRM	D P								
1FCANS 1FCPART	HMASMTRM HMASMTRM	D P								
LFMID LFRC	HMASMTRM HMASMTRM									
IHËADER IMDDN	HMASMTRM HMASMTRM	D WC								
LMDUMMY	HMASMTRM	D P								
LMIOPT LMPART	HMASMTRM HMASMTRM									
LMRC LMSG	HMASMTRM HMASMTRM									
1MSMD	HMASMTRM HMASMTRM	DR P								
IMTXT1 1P	HMASMCPY	D								
LRAANS LRAPART	HMASMTRM HMASMTRM	D P								
LRCANS LRCPART	HMASMTRM HMASMTRM									
LRMID	HMASMTRM	Ď <i>R</i>								
LRRC LUAANS	HMASMTRM HMASMTRM	DCP								
LUAPART LUBOTH	HMASMTRM HMASMTRM	D WC								
LUCANS	HMASMTRM HMASMTRM	DCP								
LUFLAGS	HMASMTRM	D W								
LUMID	HMASMTRM HMASMTRM	DRW								
LUX1 LUX2	HMASMTRM HMASMTRM									
2	HMASMCPL HMASMTPR		HMASMPMG HMASMTRM	R C M	HMASMTDD HMASMTSB	M	HMASMTPA HMASMUC2	M	HMASMTPL	M
2 P	HMASMCPY	D M	aciti kii	••		••	MASHOCE	"		
2025W	HMASMDSU HMASMDRV	D WC								
3 3 P	HMASMCPL HMASMCPY	D M	HMASMPMG	R C	HMASMTDD	M	HMASMUC2	M		
4 5	HMASMCPL HMASMCPL	DRWC								
•	HMASMAR4 HMASMMPH	DR C	HMASMDRY	M	HMASMIDU		HMASMIO	DRW	HMASMMPE	M
ACDS	HMASMDR1	DR C	HMASMREJ	UR	HMASMTPS	DRM				
ACRQ AME	HMASMDR1 HMASMAR4	DR C DRW	HMASMLKI	DR	HMASMRCD	M	HMASMRIO	R		
MECD	HMASMZAP HMASMLKD	D								
MECMPR	HMASMCIL	DR								
MEFND MEK	HMASMLKD HMASMLKD	D M								
MELEN	HMASMTAD HMASMLCP	DRW D								
MEPEQ	HMASMLKD HMASMRIO	D								
MERTN	HMASMLKD	DR M								
MESAVE	HMASMLOG HMASMUPD									
MESCH ME1	HMASMZAP HMASMLCC	D WC								
ME2 ME3	HMASMLCC HMASMLCC	DW								
PF	HMASMAAR	DR								
DS MPRLST	HMASMDR1 HMASMDRV	DR M								
RQ X	HMASMDR1 HMASMGPF	DR C	HMASMTBM	DRW						
XI	HMASMLOG HMASMGPF	DRWC M								
)×1	HMASMTEC	DRW								
EDALLC	HMASMLKI HMASMCPI	D WC								
EDASM WCUR	HMASMTM4 HMASMTAI									
WDATA WEND	HMASMAR2 HMASMTAI	DR	HMASMTPR-	DRMC						
WNAME	HMASMRIO	R	mirani i Pr	URMC						
WPGPTR WPTR	HMASMGTA HMASMTBM	D W								
WRC	HMASMAR2 HMASMTBM	DRWC DRW								
WREM										
WREM WSTRT	HMASMTAI		HMASMTBM	DRW				••••		•••

MX1 - NEWSTRY

YMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCES
			·							
EWSYSM	HMASMRCD									
EWTOP EWTYPE	HMASMTAD HMASMRIO	R								
EXTCHAR EXTNUM	HMASMMSG HMASMMCD	DR R								
EXTPAG	HMASMGTA									
EXTSUB FNDSMD#	HMASMREC HMASMREC									
FSORSW	HMASMTPO	Ď .								
FSORS1 FSVCTYP	HMASMTPO HMASMTPO	D WC P								
GCDSX	HMASMBUR	DRW								
GI Gj	HMASMTCL HMASMTCL	DRW DRW								
ĞŘ	HMASMTCL	DRW								
GL GSCD S X	HMASMTCL HMASMBUR	DRW DRW								
GSET	HMASMCPL	D WC P								
G2DELCK G2FMDCK	HMASMCPL HMASMCPL									
G2FMDCK G2IRQCK	HMASMCPL	DR								
G2PRECK G2REQCK	HMASMCPL HMASMCPL	DR DR								
G2SUFCK	HMASMCPL	D								
G2XX1CK G2XX2CK	HMASMCPL HMASMCPL	DR DR								
G2XX3CK	HMASMCPL	DR								
JCL MCSR	HMASMDR1 HMASMTP2									
MREQ	HMASMTP2	DR P								
MTS N	HMASMDR1 HMASMIDU		HMASMREC	DBM	HMASMTM	DRM	HMASMTMS	DRM		
NREQ	HMASMRIO	D WC								_
0	HMASMCPL HMASMIO	D R	HMASMCP2 HMASMMPE	D M	HMASMDR\ HMASMMPH		HMASMDS1 HMASMMPI	D C M	HMASMIDU HMASMMPV	D
	HMASMREC	DR C M	HMASMTCR	D	HMASMTDI	DR	HMASMTMD	DR C	HMASMTRM	DR C
O_TRM_DM	HMASMTR1	0	HMASMUC1	М	HMASMUC	: M	HMASMUC3	М	HMASMZAP	
	HMASMTBL									
OACIOP OADD	HMASMLC1 HMASMSEC	D W P								
OALIAS	HMASMEIS	DR	HMASMIO	D	HMASMIO	DR	HMASMRDS	DR		
OAPIOP OAPPLCD	HMASMLC1 HMASMTPA	D W P								
DAPPLK	HMASMDRV	Ď								
OAPPSAV OCOPY	HMASMDRV HMASMUXC									
ODDMSG	HMASMIO	DR								
ODELSW ODSID	HMASMCOM HMASMRIO									
ODSN	HMASMLKD	D P								
OGNDX OGO	HMASMTL1 HMASMAR1	DRW	HMASMAR2	DR	HMASMCPL	рс				
OGOCHCK	HMASMTCL	DR	minasiiar 2	J.	ASITOP L					
OGOCHK OGOSW	HMASMTL1 HMASMCPL	DR								
OGRC	HMASMTL1	DRW								
OJCLGTP OMODKEY	HMASMDRV HMASMLKD									
OMOD NM	HMASMLKD	Ď P								
ONBLNCT ONE	HMASMCRD HMASMTMS									
ONREG	HMASMAR3	DR								
ON1 ON2	HMASMSCN HMASMSCN	D								
ON3	HMASMSCN	D								
ON4 ON 5	HMASMSCN HMASMSCN									
ON6	HMASMSCN	D								
ON7	HMASMSCN HMASMAAR	D								
OPAD Oparen	HMASMCPY	Ď M								
OPART	HMASMREC	DCP	HMASMTMD	D C	HMASMTMS	DC	•			
OPSTAT Optfsck	HMASMCP2 HMASMTCL	DR	HMASMTMS	UR						
OPTFSRT	HMASMTCL	DRW	HMASMAS.	n e						
OREPORT Orescan	HMASMAR3 HMASMGPF	DR R	HMASMAR4 HMASMMCD	DR R	HMASMPMO	R	HMASMPRM	R	HMASMP01	R
	HMASMP02	Ř	HMASMP03	Ř	HMASMP04	. R	HMASMP05	R	HMASMP06	R
	HMASMP07 HMASMP12	R R	HMASMP08 HMASMP13	R R	HMASMP09 HMASMP14	R	HMASMP10 HMASMP15	R R	HMASMP11 HMASMRIO	R R
ORLES	HMASMRJD	DR C P								
OSAVE	HMASMDC1 HMASMSCN		HMASMDRV HMASMSER	R R .	HMASMDSU HMASMUCI		HMASMIO HMASMUC2	R R	HMASMLOG HMASMUC4	R R
OSAVEARE		r.			HMASMDSU		HMASMIO	 P	HMASMMSG	
	HMASMSER	Ř	HMASMDRV HMASMUC1	Ř	HMASMUC		HMASMUC4	R	กกลงกกรษ	R
OSPACE Osysl	HMASMALC HMASMLKD									
OT	HMASMCCA	R								
OTAPCHK OTCNTRL	HMASMTCL HMASMREC									
OTCOMPL	HMASMCP2	DR C								
OTE Otehdri	HMASMIO HMASMARI	DR D								
OTEHDR2	HMASMAR1	D	UM / AW:	_						
OTELIG Oteq	HMASMF PT HMASMCCA	DR R	HMASMLCD	U						
OTESW	HMASMIO	D WC								
OTETTR OTFND	HMASMIO HMASMCP2	D W P	HMASMTCR	DR C	HMASMTMD	DR	HMASMTR1	D		
OTFOUND	HMASMBDL	D C		-·· •		-		-		
OTINFUN OTINSTL	HMASMMPE HMASMAR4	DR								
OTOK	HMASMTMS	D	HMASMTP2	DR						
OTRECVD	HMASMRCL HMASMREC	D M								
OTSMHDR										

NEWSYSM - NOTSMHOR

BOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCE
YPE Rite Eolst	HMASMDLE HMASMTMD HMASMTPA	DR	HMASMTMW	D C	HMASMZAP	D MC				
FLAGS	HMASMTPA	DW								
FOUND	HMASMTPA HMASMTPA	D W M								
IOP LSOFF	HMASMTPA HMASMTPA	DRW								
PC PTND	HMASMTPA HMASMTPA									
ER#	HMASMTPA HMASMMPV	DR P								
CK NDX1	HMASMTPA	DR								
	HMASMDR1	D								
?	HMASMIDU HMASMDR1									
)S S	HMASMDR1 HMASMDR1	DR D								
DID	HMASMIDU HMASMAAR	D WC P								
3	HMASMOR1 HMASMCPL	DR DRWC								
L RC	HMASMUXÇ	DR C								
Q	HMASMDR1 HMASMRIO									
KEY Map	HMASMEIS HMASMEIS	DR R								
DK	HMASMCPL HMASMDRV	D RW								
IB NAME	HMASMAAR HMASMAAR	DR DR C								
IUM	HMASMAAR	D W	HMACMBBU	D.P.						
AL	HMASMAAR HMASMDRV	DR D	HMASMDRV	UK						
ITM	HMASMFPT HMASMVLU	DR C								
PTF#	HMASMDLE HMASMTCR	D DR C	HMASMIDU HMASMID1		HMASMRCF HMASMTMD	D C	HMASMPEC HMASMTMS		HMASMSEC HMASMTM2	
	HMASMTM3 HMASMSCN	DR	HMASMTM4		HMASMTP2					
ER	HMASMMCD	DR DR	HMASMPMG	R	HMASMP11	R				
S	HMASMEIS HMASMEIS	D								
IC L	HMASMUPD HMASMUC2	DRW P								
UPS	HMASMAR3 HMASMLCC	D W	HMASMMPE	D C						
}	HMASMLCC HMASMLCC	DW								
	HMASMDR1 HMASMDR1	B								
3	HMASMDR1									
	HMASMDR1 HMASMDR1	D								
,	HMASMDR1 HMASMDR1	D								
DEOF	HMASMDR1 HMASMTMJ	D WC								
IDFND IDSW	HMASMTMJ HMASMTMJ	D MC								
FRAD	HMASMTMJ HMASMUPD	D W P								
UF	HMASMASM	DRW M								
UBCB	HMASMTMD HMASMREC	D W P								
,	HMASMTMJ HMASMTMJ	DRW DRW								
IN.	HMASMALC HMASMALC	DR DR								
;	HMASMUC2 HMASMUC2	D D								
'	HMASMUXP HMASMAAR	DR C	HMASMALC	R C	HMASMARL	D C	HMASMAR1	R C	HMASMAR 2	RC
	HMASMAR3	R C	HMASMAR4	Ř C	HMASMASI	D C	HMASMASM HMASMCMP	R C	HMASMBDL HMASMCOM	D
	HMASMBUE HMASMCPI	DR C	HMASMBUR	RC	HMASMCIL	RC	HMASMCP2	RC	HMASMCRD	RC
	HMASMCRW HMASMDSU	R R	HMASMDLE HMASMDS1	R C	HMASMDRV HMASMEIS	R C	HMASMDR1 HMASMFPT	R C	HMASMDR2 HMASMFVL	R
	HMASMGTA HMASMLCD	DR C	HMASMIDU HMASMLCP	RC	HMASMIO HMASMLC1	DR C	HMASMIO1 HMASMLID	R C	HMASMLCC HMASMLKD	RC
	HMASMLKI HMASMPGC	DŖČ	HMASMMPE HMASMRCC	R C R C	HMASMMPI HMASMRCD	R C R C	HMASMMPV HMASMRCF	R C	HMASMMSG HMASMRCL	DR C
	HMASMRDS HMASMSER	DŘ C	HMASMREC HMASMSUP	Ř Č Ř C	HMASMRE J HMASMTBL	Ř Č DR	HMASMSCN HMASMTCL	DŘ Č Ř C	HMASMSEC HMASMTCR	RC
	HMASMTDD HMASMTL 2	Ř C DR C	HMASMTD1 HMASMTMD	Ř Č	HMASMTEC HMASMTMJ	Ř C	HMASMTID HMASMTMS	D C	HMASMTL1 HMASMTMW	RC
	HMASMTM1 HMASMTPC	RC	HMASMTM2 HMASMTPD	RC	HMASMTM3 HMASMTPL	R C	HMASMTM4 HMASMTPO	R C	HMASMTPA HMASMTPR	Ř
	HMASMTPS	RC	HMASMTP2	R C R C R C	HMASMTRM	R C	HMASMTR1 HMASMUC4	R C	HMASMTSB HMASMUPD	RC
	HMASMUC1 HMASMUPI	DR C	HMASMUC2 HMASMUXC	ŖC.	HMASMUC3 HMASMVLU	ŘČ	HMASMXRF	ŘC	HMASMZAP	DR C
SSV IRSV	HMASMIO HMASMIO	DRW		•						
	HMASMUC2 HMASMCPI	D c	HMASMCPY	D M	HMASMLKI	D C	HMASMTMS	D	HMASMTP2	DR C
SX	HMASMBUR	DRW DRWC								
DSX	HMASMCPL HMASMBUR	D R W								
EL	HMASMCPY HMASMCPL	D R								
GSET	HMASMCPL HMASMCPL	DRWC P								
ATA	HMASMUC2	D W M								
IAME IUCID	HMASMRIO HMASMDRV	R								

NOTYPE - OLDNUCID

308 OS/VS System Modification Program (SMP) Logic

YMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCES
LDPEMAX	HMASMDS1								_	
LDSPACE LDSYS LDTYPE	HMASMUC2 HMASMIO HMASMRIO	DR								
N TE	HMASMAAR HMASMAR3	DR C	HMASMALC HMASMAR4	R C	HMASMAR L HMASMAS I	DR C	HMASMAR1 HMASMASM	R C R C	HMASMAR 2 HMASMBD L	DR C
	HMASMBUE HMASMCPI	DR C	HMASMBUR HMASMCPL	R C R C	HMASMCIL HMASMCPY	R C M	HMASMCMP HMASMCP2	DR C	HMASMCOM HMASMCRE	DRC
	HMASMCRW HMASMDSU	RC	HMASMDLE HMASMD S 1	R C	HMASMDRV HMASMEIS	R C M DR C DR C	HMASMDR1 HMASMFPT	RC	HMASMDR 2 HMASMF XF	RC
	HMASMGTA HMASMLCP	R	HMASMIDU HMASMLC1	С	HMASMIO HMASMLID	RC	HMASMLCC HMASMLKD	R C	HMASML CE HMASML KI	DR C
	HMASML OG HMASMMPV	RCM	HMASMMPD HMASMMSG	DR C	HMASMMPE HMASMPGC	RC	HMASMMPH HMASMRCC	R C M	HMASMMPI HMASMPC	RC
	HMASMRCF HMASMSCN	R C C C R C	HMASMRC L HMASMSEC	RC	HMASMRDS HMASMSER	DR CC	HMASMREC HMASMSTA	R C M R C	HMASMRE	R
	HMASMSUP HMASMTD1 HMASMTMD	RC	HMASMTBL HMASMTEC HMASMTMJ		HMASMTCL HMASMTID HMASMTMS	R C C C	HMASMTCR HMASMTL1 HMASMTMW	R C	HMASMTDE HMASMTL 2 HMASMTM3	DRC
	HMASMTM2 HMASMTPD	RC	HMASMTM3 HMASMTPL		HMASMTM4 HMASMTPO	R C	HMASMTPA HMASMTPR	Ř Č R C	HMASMTPS	RC
	HMASMTP2 HMASMUC1	RC	HMASMTRM HMASMUC2	RC	HMASMTP1 HMASMUC3	Ř Č Ř C	HMASMTSB HMASMUC4	RC	HMASMUCE	C
NA	HMASMUPI HMASMTPO	DR C	HMASMUXC		HMASMVLU	ŘČ	HMASMXRF	RC	HMASMZAF	
NAASN NE	HMASMTPO HMASMAAR	D WC	HMASMAR1	DR	HMASMAR 2	DR C	HMASMAR3	DR C	HMASMAR	DR C
	HMASMBUE HMASML CP	DR	HMASMDRV HMASMMPE	DR C	HMASMEIS HMASMMPI	DR C	HMASMGTA HMASMMPV	DR C	HMASMIO HMASMMS	DR C
NEASM	HMASMRC L HMASMMPE	D M	HMASMUPD	DR						
NECOPY NEDIST	HMASMMPE HMASMMPE	D M								
NELKED NELKED	HMASML KD	D M								
NENAME NEPAGE NEPTFOK	HMASMZAP HMASMGTA HMASMTCL	R	,							
NEUPD NEO	HMASMMPE	D M								
NREQ PACDSDI	HMASMRIO HMASMIO									
PACDSDO PACDSI	HMASMIO HMASMIO	Ď								
PACDSO PACRODI	HMASMIO HMASMIO	D								
PACRQI PACRQO	HMASMIO HMASMIO	D								
PARRAY Pasm	HMASMDLE HMASMUC2	D	•							
PASMPA PASMPR	HMASMUC2	D								
PASMRC PCDSDI PCDSDO	HMASMUC2 HMASMIO HMASMIO	D								
PCDSI PCDSO	HMASMIO HMASMIO	Ď								
PCOMPA	HMASMUC2 HMASMUC2	: D								
PCOMP# PCOMPC	HMASMUC2 HMASMUC2	: D								
PCONTI PCOP	HMASMIO HMASMUC2	B								
PCOPPA PCOPPR	HMASMUC2 HMASMUC2 HMASMUC2	D								
PCOPRC PCRQDI PCRQI	HMASMIO HMASMIO	Ď								
PCRQO PEN	HMASMIO HMASMBDL	D	HMASMIO	R						
PENCLOS PENFAIL	HMASMIO HMASMIO									
PENNDX PENRC	HMASMTB L HMASMGTA	DRW								
PERANDS PGLN	HMASMUC2									
PHÍSTI Phísto Píndx	HMASMIO HMASMIO HMASMDLE	DBM								
PJFCBI PJFCBO	HMASMIO HMASMIO	D								
PLIST	HMASMASI HMASMUC 2	DR M								
PLKDPA PLKDPR	HMASMUC2 HMASMUC2	B								
PLKDRC PLRFI	HMASMUC2 HMASMIO	D								
PLSTO PMACI	HMASMIO HMASMIO	D								
PMTSDI PMTSI PMTSO	HMASMIO HMASMIO HMASMIO	D								
PNRTNCD PPMAX	HMASMDSU HMASMUC2	DRW								
PPRTO	HMASMIO HMASMIO	B								
PPTSDI PPTSI	HMASMIO HMASMIO	D								
PPTSO PPUNO PPUR	HMASMIO HMASMIO HMASMUC2	D								
PREJ PRNDCHK	HMASMUC2 HMASMREC	D								
PRNDKEY	HMASMREC HMASMREC	DR								
PRPTO	HMASMIO HMASMREC	D								

SYMBOL	MODULE	ACCES	s	MODULE	SYMBO ACCESS	L USAGE Module	ACCE	ss	MODULE ACCE	ss	MODULE	ACCESS
OPRITION OPPRIOR OPPRI	HMASMREC HMASMREC HMASMREC HMASMREO HMASMIO HM		P P P P P									
OPTYSO OPT OPTARRAY OPTION	HMASMID HMASMDRI HMASMDRI HMASMAR4 HMASMOLE HMASMOLE HMASMILKD HMA	D C	************	HMASMCPY HMASMCPY HMASMCPY HMASMCPY HMASMLPC HMASMLPC HMASMTPD HMASMTTMD HMASMTTMD HMASMTTMD HMASMTTMD HMASMTTMD HMASMTTMD HMASMTTPD HMASMTPD HMASMTPD HMASMTPD HMASMTPD HMASMTPD HMASMTPD	E	HMASSMLPD HMASSMLPD HMASSMLPD HMASSMLPD HMASSMLPD HMASSMLPD HMASSMTTPP HMASSMTTPP HMASSMTTPP HMASSMTTPP HMASSMTTPP HMASSMTTPP HMASSMTTPP HMASSMTHP HMASSMTHP HMASSMTHP		************	HMASMMER RHMASSMMPRE RHMASSMMPRE HMASSMMPRE HMASSMMPRE HMASSMMPRE HMASSMMTE HMASSMMTE HMASSMTE HMASMTE HMASSMTE	******* *******	HMASMAR3 HMASMCRU HMASMCRU HMASMIOID HMASMIOID HMASMREJ HMASMREJ HMASMTUB HMASMTUB HMASMTUB HMASMTUB HMASMTUB HMASMTUB HMASMTUB HMASMTUB HMASMTUB HMASMTUB HMASMTUB HMASMTUB HMASMTUB HMASMTUB HMASMTUB HMASMTUB HMASMULU	*************
OPTLGTH OPTLINE	HMASMMAR HMASMBCDU HMASMBC	23222222222222222222222222222222222222	M	HMAAASSMMTHTHUUCL HMAAASSMMTHTHUUCL HMAASSMMTHTHTHUUCL HMAASSMMTHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	00 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	HMAASSMITTHE HMAASSMITTHE HMAASSMITTHE HMAASSMITTHE HMAASSMITHE HMAASSMITTHE HMAASSMITTHE HMAASSMITTHE HMAASSMITTHE HMAASSMITHHE HMAASS	anananananananananan O		R R R R R R R R R R R R R R R R R R R		HMASMAPUE HMASMEVE HMASMEVE HMASMEVE HMASMICTE HMASMICTE HMASMICTE HMASMICTE HMASMICTE HMASMI	***************************************
NGTR ARC INSAMPLE	HMASMUCCZ22 HMASSMUCCZ22 HMASSMUCCZ22 HMASSMUCCZ22 HMASSMUCCZ22 HMASSMUCCZ22 HMASSMUCCZ22 HMASSMUCCZ22 HMASSMUCCZ22 HMASSMUCCZ22 HMASSMUCCZ222 HMASSMUCCZ222 HMASSMUCCZ222 HMASSMUCCZ222	3 3 UU 333 RR 333 RR	M 3333	HMASMCOM	D W	HMASMCPI HMASMCPI		М	HMASMLKI D W	М		DR M
OTREQ OUT OUTADDR OUTAREA	HMASMRIO HMASMGTA HMASMARI HMASMFVL HMASMLID	R R R R		HMASMAR2 HMASMFXF	DR	HMASMAR3 HMASMLCC	DR	 M - M	HMASMAR4 DR HMASMLCD DR		HMASMFPT HMASMLCP	DR
DEDELINIT	10N, K=KE	AU, WE	-4 FT	. L, CECOMP					ACRO, A=ABSOLU	,	, arakans I	

VMBO	MODILI =	ACC===		MODUL =			LUSAGE	40075		MODIII =	ACCESE	MODILLE	ACC
YMBOL	MODULE	ACCESS	_		ACCES		E	ACCES		MODULE	ACCESS	MODULE	ACCES
UTASSEM	HMASMAR2	D W											
UTBLKSZ	HMASMEIS HMASMZAP	D											
UTBUFF UTCOME	HMASMAR1 HMASMCPI	DRW		HMASMAR2 HMASMLKI			HMASMAR3	DRW		HMASMAR4	DRW	HMASMEIS	DR
UTCTR UTDATA	HMASMAR4 HMASMEIS	D											
UTDDK UTDDK1	HMASMCPY HMASMCPY	D 1	1										
JTDD NM JTDD SW	HMASMCIL HMASMCPY	Ď											
JTDISRC	HMASMAR 2	D W											
JTEFMID JTELEM	HMASMAR2 HMASMAR2	D W											
JTERMID JTESTAT	HMASMAR2 HMASMAR2	D W											
TFILL TFMID	HMASMEIS HMASMAR1	D W											
JTHEAD JTIN	HMASMIO Hmasmio	DR NC N	1										
JTKEY JTLMOD	HMASMEIS HMASMAR2	D WC											
TMEM TMSLIB	HMASMEIS HMASMAR2	W											
JTNAME JTPRLG		D W		HMASMAR2	n		HMASMAR3	n		HMASMAR4	n		
JTPSTAT JTPTF	HMASMAR2 HMASMAR1	D W		HMASMAR 2				•		MINGHAK T	•		
TPUT	HMASMIO HMASMCOM	R M	1	HMASMCPI									
TREC	HMASMZAP	DRW		HMASMCPI	DRWC								
TRELP	HMASMAR1 HMASMAR1												
TRELPT TSTAT	HMASMAR1 HMASMAR1	DW											
ITSYS ITSYS1	HMASMAR 2 HMASMAR 2	D W											
ITSYS2 ITTYPE	HMASMAR2 HMASMAR1	DW	1	HMASMAR 2	D W								
JTVAR JTVAR1	HMASMAR4 HMASMAR4	D											
ARTEXT	HMASMAR4 HMASMLKI	D W											
ŘĎ INER	HMASMALC HMASMAR4	D W M	1										
IN C.	HMASMCIL HMASMTMW	DRW		HMASMCP2 HMASMTPD			HMASMIDU HMASMIPS			HMASMRCD HMASMUPI		HMASMTMS HMASMZAP	
	HMASMTPO	DRW						-		_			
CK	HMASMDRV HMASMTMJ	R	i	HMASMDSU HMASMTM1	R		HMASMLOG HMASMTM2	R R		HMASMMPH HMASMTM3	R R	HMASMREC HMASMUC1	R R
CKED	HMASMUC2												
CKSRTN CK1	HMASMSUB HMASMION	DR DR											
DDED	HMASMMSG HMASMAAR	DR D											
D1	HMASML OG HMASML OG	R R											
D3 GDATA	HMASMLOG HMASMGTA	R DRW											
GEFLD GENO	HMASMIO HMASMIO	DR DRW											
GEPFX	HMASMGTA HMASMGTA	DRWC											
RAM	HMASMAAR HMASMAAR	DR	,	HMASMCOM	R		HMASMRCD	R		HMASMUPI	R	HMASMZAP	R
RMEQSW RMLIB	HMASMLKD HMASMLKD	D WC			•		MINOS	-		MINISTOFI	*	HIRSHIZAF	•
RMLINE	HMASML CP HMASMAAR	D											
RMLIST RMPTF	HMASMSUP		P										
RMREG RMREGO	HMASMLOG HMASMALC	DRW	,	HMASMSCN	R								
RMREG1 RMREG5	HMASMALC HMASMALC	DRW											
RMS RMSET	HMASMLKI HMASMLKI	D_WC											
RMSTSL RMSUB	HMASMTMD HMASMTMJ	DR											
RM1 RM2	HMASMTSB HMASMTAD	D C	P										
RM3 RSAV	HMASMTAD HMASMZAP	DR	P										
RSERC	HMASMTPC HMASMREC	DRWC											
RSERTN RTEND	HMASMTPC HMASMDC1												
RTOOO RTOO1	HMASMTMS HMASMDC1	D											
RT002 RT003	HMASMAAP HMASMDC1	DR		HMASMBDL HMASMUC1			HMASMDC1 HMASMUC2	D M		HMASMUPI	D		
RT004 RT005	HMASMDC1 HMASMDC1	B	•		5 K		AMASMUCZ	-	•				
RTOO6	HMASMDC1	Ď		WMAGHTE-		_	UMAGNES						
RT007 RT008	HMASMDC1 HMASMDC1		- +	HMASMTPR	D	M	HMASMTRM		P				
RT009 RT010	HMASMAAR HMASMDC1	D		HMASMDC1			HMASMUPI	_			_		_
RT011	HMASMASI HMASMTL1	D	;	HMASMDC1 HMASMTMD	b	P	HMASMREJ HMASMTRM			HMASMTCL HMASMTSB	D M	HMASMTDD HMASMUPI	
RT012	HMASMDC1			HMASMTDD		M							
RT013	HMASMDC1 HMASMASI	D	-	HMASMTDD HMASMDC1	D	M	HMASMTL2 HMASMTDD		1	HMASMTL2	DR	HMASMUPI	D
RT015 RT016	HMASMDC1 HMASMAAR	DR	-	HMASMZAP HMASMBUE	DR		HMASMDC1	D		HMASMDLE		HMASMEIS	
	HMASMIO	DR		HMASMUCI	DR		HMASMUC 2	_ M					

OUTASSEM - PARTO16

						USAGE								
SYMBOL	MODULE	ACCESS	MODULE	ACCESS	_	MODULE	ACCE	s s	MODULE	ACCE	ss	MODULE	ACCI	ESS
PARTO17 Parto18	HMASMDC1 HMASMCOM		HMASMDC1	D		HMASMUC1	DR		HMASMUC2		м	HMASMUC3	DR	
PARTO19	HMASMUC4 HMASMDC1	DR												
PART020	HMASMDC1 HMASMDC1	D	HMASMDSU HMASMDRV	DR		UMACMMAN	D.D.		UMAGMMBE			UMACMMBU		
PART021	HMASMMPI	DR	HMASMMPV	DR		HMASMMPD	אט		HMASMMPE			HMASMMPH		
PARTO22 Parto23	HMASMDC1 HMASMDC1		HMASMUC1 HMASMUPD			HMASMUC2		М	HMASMUC3	DR		HMASMUC4	DR	
PARTO24 Parto25	HMASMDC1 HMASMDC1	D D	HMASMUPD HMASMUPD	DR DR										
PARTO26	HMASMDC1	D	HMASMDRV HMASMMPI	DR		HMASMDSU HMASMMPV			HMASMMPD HMASMUC1			HMASMMPE HMASMUC2	DR	м
	HMASMMPH HMASMUC3	DR	HMASMUC4	DR		HHASHITEV	אט		HMASHOCI	אט		HIMASHUCZ		М
PARTO27 Parto28	HMASMDC1 HMASMCPL	D DR	HMASMIO HMASMDC1	D R										
PARTO29 Parto30	HMASMCPL HMASMCPL	DR	HMASMDC1 HMASMDC1											
PART031	HMASMDC1 HMASMIO		HMASMDLE			HMASMEIS	DR		HMASMIO	DR				
PARTO32 Parto32X	HMASMDC1	Ď												
PARTO33 Parto33X	HMASMUPI HMASMDC1													
PARTO34X Parto35X	HMASMDC1 HMASMDC1													
PART036X PART037X	HMASMDC1 HMASMDC1	D												
PART038X	HMASMDC1	D												
PARTO39X Parto40	HMASMDC1 HMASMCOM	DR	HMASMDC1	D										
PARTO41X Parto42	HMASMDC1 HMASMDC1													
PARTO43 Parto44	HMASMDC1 HMASMDC1	D												
PARTO45X PARTO46X	HMASMDC1	D												
PART047X	HMASMDC1 HMASMDC1	D												
PARTO48X Parto49X	HMASMDC1 HMASMDC1													
PARTO50 Parto51x	HMASMAAR HMASMDC1		HMASMBDL	DR		HMASMCOM	DR		HMASMDC1	D				
PARTO52 PARTO53	HMASMDC1 HMASMDC1	D												
PART054X	HMASMDC1	D												
PARTOSS Partos6	HMASMDC1 HMASMDC1	D												
PARTO57X Parto58	HMASMDC1 HMASMCOM	D	HMASMDC1	D										
PARTO59 Parto60x	HMASMDC1 HMASMDC1	D	HMASMTL1											
PARTO61X PARTO62	HMASMDC1 HMASMDC1	D	HMASMUPI	n										
PART063X	HMASMDC1	D	HMASMOPI	U										
PARTO64 Parto65	HMASMDC1 HMASMDC1	D												
PARTO66 Parto67	HMASMDC1 HMASMDC1	D	HMASMTPL	D M										
PARTO68 PARTO69	HMASMDC1 HMASMDC1	D												
PART070	HMASMDC1	D												
PARTO71 Parto72X	HMASMDC1 HMASMDC1	D												
PARTO73X Parto74	HMASMDC1 HMASMDC1	D												
PARTO75 Parto76x	HMASMDC1 HMASMDC1		HMASMMPE	DR										
PARTO77X PARTO78X	HMASMDC1 HMASMDC1	D												
PART079X	HMASMDC1													
PARTOBOX PARTOB1X	HMASMDC1	Ď												
PARTOS2X Partos3X	HMASMDC1 HMASMDC1													
PARTOS4X Partos5X	HMASMDC1 HMASMDC1													
PARTOS6X PARTOS7X	HMASMDC1 HMASMDC1	D												
PARTOSSX	HMASMDC1	D												
PARTO89X Parto90	HMASMDC1 HMASMDC1	D	HMASMTCR			HMASMTSB	D_	M		_				
PARTO91 PARTO92	HMASMDC1 HMASMDC1	D	HMASMTCL HMASMTCR	R M		HMASMTCR	UR		HMASMTSB	U	M			
PARTO93X Parto94	HMASMDC1 HMASMDC1	D	HMASMREC	D	P									
PARTO95 PARTO96	HMASMDC1 HMASMDC1	D	HMASMREC HMASMREC	D	P									
PARTO97 PARTO98	HMASMDC1 HMASMDC1	D	HMASMREC HMASMREC	Ď	P									
PARTO99 PART100	HMASMDC1	D	HMASMTPL	Ď M		HMASMTPR	D	M	HMASMTRM HMASMTRM	DR				
PART101	HMASMDC1 HMASMDC1	D		ĎR		HMASMTPR	J	М	HIMOMIKM	J.				
PART102 Part103	HMASMDC1 HMASMDC1	Ď	HMASMRCD HMASMRCD	R M										
PARTIO4 PARTIO5	HMASMCPL HMASMCPL	DR	HMASMDC1 HMASMDC1	D D										
PARTIO6 PARTIO7	HMASMCPL HMASMCPL	D P	HMASMDC1 HMASMDC1	D										
PARTIOS PARTIOS	HMASMCPL HMASMCPL	D P	HMASMDC1 HMASMDC1	Ď										
PARTI10	HMASMCPL HMASMCPL	DR	HMASMDC1	Ď										
PARTILI PARTILI	HMASMALC	DR	HMASMDC1 HMASMDC1	D										
PART113 PART114	HMASMALC	DR DR	HMASMDC1 HMASMDC1	D										
PART115	HMASMALC	OR	HMASMDC1	Ď										

PARTIIS HMASMALC DR HMASMDCI D
PARTII6 HMASMALC DR HMASMDCI D
PARTII7 HMASMALC DR HMASMDCI D
D=DEFINITION, R=READ, W=WRITE, C=COMPARE, E=EQUATE OPERAND, M=MACRO, A=ABSOLUTE, P=PARAMETER

SYMBOL USAGE SYMBOL MODULE ACCESS MODULE ACCESS MODULE ACCESS MODULE ACCESS MODULE ACCESS HMASMTPA HMASMTPA HMASMTPR HMASMTRM HMASMTRM HMASMTRM HMASMTRM HMASMTRM HMASMTRM HMASMTRM HMASMTRM HMASMTRM PARTILO HAMASMOCI D
PARTILO HAMASMOCI D
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PARTILO HAMASMOCI D
PARTICHARI HAMASMOCI D
PATCHARI HAMASMOCI R RR RR M M P HMASMEPT DR HMASMFXF R P HMASMLCC DR P HMASMIO DR HMASMMPH D

DEDEFINITION, REREAD, WEWRITE, CECOMPARE, EEEQUATE OPERAND, MEMACRO, AEABSOLUTE, PEPARAMETER

SYMBOL USAGE SYMBOL MODULE ACCESS MODULE ACCESS ACCESS MODULE MODULE ACCESS MODULE ACCESS PATCHUXC PATCHVLU PATCHXRF HMASMUXC D HMASMVLU D HMASMXRF D HMASMZAP D HMASMIO DRW
HMASMUC2 DR
HMASMUC2 DR
HMASMUC2 DR
HMASMUC2 DR
HMASMUC2 DR
HMASMUC2 DR
HMASMUC2 DR
HMASMUC2 DR
HMASMUC2 DR
HMASMUC2 DR
HMASMIO DRW
HMASMIO DRW
HMASMIO DRW
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HMASMIO DRW
HMASMIO DRW
HMASMIO DRW
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HMASMIO DRW
HMASMIO DRW PATCHZAF PB PC PCAOP PCATXT PCNUL PCVAL PCVAL PD RLEN PD SADDR PATCHZAP HMASMTPO DRW M HMASMTPO DRW PDIRLEN PDSADDR PDSARRAY PDSDDNAM PDSDEBAD PDSDRTNS T XCL TLSR DI XCL THE COLOR OF THE C M LDD 234

SUM AAARG12 FT K 44

SUM AAAARG12 FT K 43

SUM AAAARG12 FT K 4 HMASMUC1 D HMASMEPT DR HMASMLCD D HMASMLKD D C HMASMUC1 DR PFMVAL PF8NUL PF8UPD PF8VAL M PG PGCBITS PGLEND NEM PTX
PGLEND NEM PTX
PGMHINAR SNIE
PGGMMRSYIE
PGGMMRSYIE
PGGMMRSYIE
PAGMMRSYIE
PGLEN HMASMIO DR P М PHWUPD PHWVAL м PICKLIB1 PICKLIB2 PIDVAL M PIDVAL PINDCODE PKACCDS PKAPP PKBIN PKCDAR м PKCHAR PKDDEC PKDEC PKG130 PKL1ST PKWKAREA PLUSPLUS HMASMTMJ DR HMASMTM1 DR HMASMTM2 DR HMASMTM3 DR HMASMLCP D C HMASMTPC D C PM PMLEN PNAMETYP PO POCODE М HMASMIO M HMASMLKI DR

PATCHUXC - POPCOPPA

DEDEFINITION, REREAD, WEWRITE, CECOMPARE, EEEQUATE OPERAND, MEMACRO, AEABSOLUTE, PEPARAMETER

YMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCE
OPCOPPR	HMASMUC2									
PCOPRC PGLN	HMASMUC2 HMASMUC2	D M								
PLKD	HMASMUC 2	DR M								
PLKDPA	HMASMUC2 HMASMUC2	DR M								
PLKDRC	HMASMUC2									
PPMAX	HMASMUC2	D M								
PPUR	HMASMUC2 HMASMUC2									
PSUP	HMASMUC 2	DR M								
PSUPPA PSUPPR	HMASMUC2 HMASMUC2									
PSUPRC	HMASMUC2	D M								
PUPDPA	HMASMUC2 HMASMUC2									
PUPDPR	HMASMUC2	DR M								
PUPDRC	HMASMUC2 HMASMUC2									
PZAPPA	HMASMUC2	DR M								
PZAPPR PZAPRC	HMASMUC2 HMASMUC2									
SITN	HMASMBDL	D								
SR	HMASMUC2 HMASMMSG									
	HMASMTCR	DRW								
TR 6	HMASMCIL HMASMTPO		P P							
BITS	HMASMLKD	DR	F							
CERR	HMASMDRV HMASMAR1	DBMC	HMASMCP2	n -	HMASMMPV	ם אכ	HMASMTR1	D C F	•	
ĒAD	HMASMEIS	D WC	HHASHUP Z	5 5	AMASMMEV	5 WC	ULIMORITEE	, ,	-	
ECHN ECOMMA	HMASMTCR	D C								
ECRC	HMASMTPO HMASMAR1	DRWC	HMASMAR2	DRW	HMASMAR3	DRW	HMASMAR4	DRW		
EINDX1	HMASMREC	D W	Р							
EL ELIST	HMASMAR1 HMASMTPO	DRM								
EMEOF	HMASMASM	DR	HMASMCPY		HMASMLKD	DR	HMASMUPD	D C		
EMSW ENUM	HMASMASM HMASMTPO		HMASMLKD	D MC						
EPER	HMASMDRV	D	_							
ESMS L ESUP	HMASMTMD HMASMIDU		P HMASMTMS	р с	HMASMTPS	DR C				
EVDSN	HMASMALC	D WC		- -		J., J				
EVINST EVPAG	HMASMAR4 HMASMGTA									
EVPTR	HMASMRDS	DRW	_							
IMED	HMASMDS1 HMASMLOG	D C	P							
INTALL	HMASMLOG	D WC								
INTLIM	HMASMMSG	DR C								
INTRTN	HMASMIO HMASMMSG	DR DR	HMASMRCL	DR						
LBLANK	HMASMAR1	W	HMASMAR 2	W	HMASMARS	W_	HMASMAR4	W	HMASMDRV	W
	HMASMF PT HMASML CP	W	HMASMFVL HMASMLID	W	HMASMIO HMASMLOG	M _C	HMASMLCC HMASMPRL	D	HMASMLCD HMASMRCL	
	HMASMREC	ũ	HMASMTMD	ũ	HMASMUC1	ũ	HMASMUC 2	_ M	HMASMUC3	
LBUF	HMASMUC4 HMASMZAP	DR DR								
LCONC	HMASMPRL	D			UM / = / = =					
LDATA	HMASMCRD HMASMPRL		HMASMDRV HMASMRCL		HMASMIO HMASMZAP	RUC	HMASMLOG	DR	HMASMMSG	DRW
LDATE	HMASMIO	W	HMASMLOG		HMASMPRL					
LEND LFLGS	HMASMPRL HMASMASM		HMASMCPY	W	HMASMLCC	ш	HMASMLCD	W	HMASMLCP	W
_,	HMASMLID	W	HMASMLKD	W	HMASMLOG	ü	HMASMMSG	W	HMASMPRL	D
	HMASMPCL HMASMUC3	W	HMASMPEC HMASMUC4	W	HMASMTMD HMASMZAP	W	HMASMUC1	W	HMASMUC2	W
LHDADR	HMASMAR1	W	HMASMAR 2	W	HMASMAR3	W	HMASMAR4	W	HMASMEPT	W
	OIMZAMH	R W	HMASMLCC HMASMPRL	p M	HMASMLCD	W W	HMASMLCP	W	HMASMLID	W
LHEAD	HMASMLOG HMASMAR1	W	HMASMAR 2	, M	HMASMRCL HMASMAR3	W	HMASMAR4	W	HMASMDRV	W
- · · - · · •	HMASMFPT	Ñ	HMASMFVL	Ñ	HMASMIO	С	HMASMLCC	ู พิ	HMASMLCD	W
LHEADO	HMASMLCP HMASMAR1	W	HMASMLID HMASMAR2	M	HMASMLOG HMASMAR3	W	HMASMPRL HMASMAR4	W	HMASMRCL HMASMDRV	W
	HMASMFPT	Й	HMASMFVL	W	HMASMIO	C	HMASMLCC	_ พิ	HMASMLCD	W
LPARM1	HMASMLCP HMASMLCC	DW	HMASMLID HMASMLID	D M	HMASMLOG	W	HMASMPRL	ט	HMASMRCL	W
LRLEN	HMASMAR1	W	HMASMAR2	W	HMASMAR3	W	HMASMAR4	W	HMASMASM	
	HMASMCPY HMASMFXF	₩ W	HMASMCRD HMASMIO	W RWC	HMASMDRV HMASMLCC	W	HMASMFPT HMASMLCD	W	HMASMFVL HMASMLCP	W
	HMASMLID	Ŵ	HMASMLKD	M	HMASMLOG	RWC	HMASMECD	RW	HMASMPRL	
LSPAN	HMASMPC L HMASMCRD	M	HMASMZAP HMASMIO	M	HMASMPRL	n				
LTIME	HMASMIO	Ŵ	HMASMLOG		HMASMPRL	Б				
MDATE MFLGS	HMASMDSU HMASMDSU				-					
MFMID	HMASMDSU									
NTASA NTBUF	HMASMIO HMASMEPT	D	UMASMELL	D.B.U	HMASMFXF	DBU	UMARHER	0.014	UMASHISS	0.00
	HMASMEPT	DRW	HMASMFVL	UKM	HMASMFXF	UKM	HMASMIO	DRW	HMASMLCD	DRW
NTCODE	HMASMALC	DR								
NTDATA NTDEAD	HMASMIO HMASMIO	DRWC DWC								
NTHEAD	HMASMIO	DR								
NTINDX	HMASMFVL HMASMASM		HMASMCPY	D.P.	HMASMLKD	פח				
NTPRLG	HMASMFPT	D	HMASMEVL		HMASMEXE		HMASMLCD	D	HMASMLCP	D
OCACPT	HMASMT L 2	DR					-			
OCAPP	HMASMTL2 HMASMTL2	DR								
OCESS	HMASMAR1 HMASMAR3	DRW	HMASMAR2 HMASMTMD	DRW						
orog	HMASMRCC	R	HMASMRCF	Ř	HMASMRCL	R	HMASMREC	R	HMASMTCL	R
	HMASMTMD	R								
RTALLOC	HMASMEIS									

POPCOPPR - PRTALLOC

VMBC:	MODI!!	400555	MOD!		DL USAGE		Man		MOD!	1005
YMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCES
RTBUF	HMASMLCC	DBM	HMASMLID	DBM						
RTDCB	HMASMIO	D	MINASITEED	DRM						
RTENT	HMASMIO HMASMREC	D C P								
TMSK	HMASMEIS	DR								
TREQD TRTN	HMASMEIS HMASMIO	D KM								
PTR	HMASMIO HMASMTPS	DPW M								
RVAL	HMASMUC2	DR M								
SI F	HMASMAAR HMASMAR1		HMASMAR4	DP	HMASMDR1	DP F	HMASMTBL	D F	HMASMTBM	D C
	HMASMUC1	D MC		•						•
FAN7 FBUFF	HMASMMPH HMASMAR1	DRW								
FCHK	HMASMMPD HMASMCPL	D	HMASMMPH	D						
FDATA	HMASMAR1									
FDCBND	HMASMIO HMASMIO	D								
FDELT	HMASMAR4 HMASMDLE		HMASMIO	D						
FENTRC	HMASMDLE	DRW P								
FENTRY	HMASMCP2 HMASMTCL		HMASMDLE HMASMTDD							
FF2OP FICT	HMASMIO HMASMCMP	D WC	HMASMDLE		HMASMIDU	DR P				
FIND	HMASMARI	DRWC	HIMASIIDEE	UR ,	HHASHIDO	UK P				
FINDX	HMASMAR3 HMASMREC	D WC								
FINRTN	OIMSAMH	D	UMARMICI	D.B.U.						
FIX FJFSV	HMASMCMP HMASMIO	D MC	HMASMTCL	DRM						
FKEY	HMASMREC HMASMIO	D D								
FNO	HMASMLKI		HMASMUC4	DRW						
FNUM	HMASMAR1 HMASMTPC	DRW DRWC	HMASMTRI	DR C	•					
FRC	HMASMXRF	DRWC								
FREGRS FSAV17	HMASMAR3 HMASMDRV	DR M								
FSCRC	HMASMAR3 HMASMAR3	DRMC								
FSTAT	HMASMAR1	D MC								
FSUPED	HMASMAR3 HMASMAR1	D WC	HMASMAR4	DRW	HMASMTAD					
FWARN	HMASMALC HMASMREC	R R	HMASMASI HMASMREJ	DR R	HMASMBUR HMASMTBL	R	HMASMCMP HMASMTCL	D.P.	HMASMIDU HMASMTMD	DR
	HMASMTMS	R	HMASMTPA	С	HMASMTPD	R	HMASMTRM	Ř	HMASMUC1	DŘ
FX	HMASMUC2 HMASMFPT	R C P	HMASMUC3 HMASMTCL	R DRW	HMASMUC4 HMASMUC1					
MSTAT	HMASMCP2	Ď	HMASMTMS	D						
COUTMAP	HMASMF PT HMASMTMS	ĎR P								
RICTP RIOP1	HMASMTMD HMASMTMD	DRWC								
RIOP2	HMASMTMD	DRWC P								
RO RO	HMASMTMS HMASMTMD									
RÍ S	HMASMTD1 HMASMDR1		HMASMIO	DR						
SCARD	HMASMTMW	DRW P	MINASITIO	D.K						
SCODE	HMASMREC HMASMTMW	D R								
SCRD72	HMASMTMW	ĎС								
SDATA	HMASMTMW HMASMIO	D								
SDDNAM	HMASMCMP HMASMRJD	D D P W								
SDENT	HMASMIO	D								
SDRTN SENT	HMASMIO HMASMIO	D D								
SEOF Sidcb	HMASMTMW HMASMIO	D MC								
SK	HMASMDRV	Ď								
SODCB SPEMAX	HMASMIO HMASMREC	D WC								
SRTN	HMASMIO	D								
SSAV SSEQ	HMASMDRV HMASMTMW									
SX TR13	HMASMFPT HMASMIO	D W P								
TR4 NENT	HMASMIO	ĎŴ								
NODCB	HMASMIO HMASMIO	D								
NRTN T	OIMZAMH OIMZAMH	D DR								
TRTNCD	HMASMCRD	DRWC								
TSMRC TSYSM	HMASMRCD HMASMRCD	DR								
TUT1	HMASMTMW HMASMTPO	DR								
В	HMASMCPL	DRW								
C D	HMASMCPL HMASMTPO	DRM								
Ē	HMASMCPL HMASMCPL	DRW								
G	HMASMCPL	DRW								
H TNDLEN	HMASMCPL HMASMIO1	DRW								
1	HMASMCPL	DRW	HMASMTPO	DRW						
3 8	HMASMTPO HMASMTPO	DRW								
		DRW	HMASMTPO	DBM	HMASMVLU	DPW				
K	HMASMGTA	DR								
	HMASMCPL	DRW	HMASMTPO	DRW	HMASMVLU	DRW				

PRTBUF - P2

					SYMBO	L USAGE					
SYMBOL	MODULE	ACCES		MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
P 2 K P 3 P 4 P 4 K P 5	HMASMGTA HMASMTPO HMASMCPL HMASMGTA HMASMTPO			HMASMTPO	DRW						
P512B P6 P7 P8 P9 Q	HMASMGTA HMASMTPO HMASMCPL HMASMCPL HMASMCPL HMASMIDU	3333 2233 2333 2333	P	HMASMTPO HMASMTPO HMASMTPO	DRW						
QBLANK QDOT QDSS QMAC QMTS QPTS	HMASMUC2 HMASMUC2 HMASMUC2 HMASMUC2 HMASMUC2 HMASMUC2	R R R R									
QQ QSAMERR QSAC QSREL	HMASMIO HMASMIO HMASMUC2 HMASMUC2	R DR DR	М								
QSTS QSYS QSYSMOD QSYSTEM QUOTE QUOTE1	HMASMUC2 HMASMUC2 HMASMUC2 HMASMUC2 HMASMDSU HMASMDSU	R R R R		HMASMLKD	D C	HMASMP04	R	HMASMP11	R		
QUOTE2	HMASMDSU HMASMBDL HMASMTCL	R	M	HMASMCOM HMASMTPD	DRW	HMASMIO	М	HMASMLKI	DRW	HMASMTBL	R
RADDOO RADJ RANY1	HMASMUC1 HMASMREC HMASMLCP	DRW DR	M	HMASMUC3 HMASMTM1		HMASMTM2	DRW	HMASMTM3	DRW		
RASMOO RCACC RCACPRT RCACPSW	HMASMUC1 HMASMDRV HMASMDRV HMASMDRV	DRW D	M M								
RCAPLET RCAPLSW RCAPP	HMASMDRV HMASMDRV HMASMDRV	D WC	M								
RCCNV RCDEOF RCDKEY	HMASMDRV HMASMGTA HMASMGTA										
RCENT RCENTRD RCERR RCFUNCT	HMASMDRV HMASMDRV HMASMDRV	D WC									
RCINIT RCJCL RCJCLRT	HMASMDRV HMASMDRV HMASMDRV	DRWC	M M								
RCJCLSW RCLFLGS1 RCLINE RCLIST	HMASMRCL HMASMRCL HMASMLCP HMASMDRV	0									
RCLOGRT RCLOGSW	HMASMDRV HMASMDRV HMASMDRV	D WC	M								
RCLRETRN RCLSTRT RCLSTSW	HMASMRCL HMASMDRV HMASMDRV HMASMDRV	D WC	M								
RCPTR RCREC RCRECRT RCRECSW	HMASMDRV HMASMDRV HMASMDRV	DRW D	M								
RCREJRT RCREJSW	HMASMDRV HMASMDRV HMASMDRV	DRW D WC	M								
RCRST RCRSTRT RCRSTSW	HMASMDRV HMASMDRV HMASMDRV	D WC	M								
RCSMP RCTPROC RCUCL RCUCLRT	HMASMDRV HMASMREC HMASMDRV HMASMDRV	D R D R W C	M								
RCUCLSW RCVL RCXXXSW	HMASMDRV HMASMDRV HMASMDRV	D WC									
RC1 RC10 RC11	HMASMDRV HMASMDRV HMASMDRV	D	М								
RC12 RC14 RC15	HMASMDRV HMASMDRV HMASMDRV	0	M								
RC22 RC3 RC4	HMASMDRV HMASMDRV HMASMDRV	D	M								
RC5 RC6 RC7 RC8	HMASMDRV HMASMDRV HMASMDRV HMASMDRV	0000									
RC9 RDATAV RDATE	HMASMDRV HMASMMPV HMASMDSU	D D D R	M								
RDATEV RDEL RDELOO	HMASMDSU HMASMMPV HMASMUC1	D R	M M M	HMASMUC3	D M						
RDIS RDISN RDISR RDISW	HMASMDRV HMASMDRV HMASMDRV HMASMDRV	DR DR	E E E								
RDJFCB RDLBSYD	HMASMIO HMASMUC1	0 8	M								
RDLBSYLB RDLBSYV RDLBXXX RDLB00	HMASMUC1 HMASMUC1 HMASMUC1 HMASMUC1	DR	M M								
				TE, C=COM	ARE, E=E	QUATE OPE	RAND, M=	MACRO, A=A	BSOLUTE,	P=PARAMET	E R

P2K - RDLB00

SYMBOL	MODULE	ACCES	s	MODULE	ACCE		MODULE	ACCE	ss	MODULE	ACCE	ss	MODULE	ACC	ESS
RDPALLOC RDPBUFAD	HMASMIO HMASMIO	RW		HMASMRDP	D D		HMASMRDS	W							
RDPCLOSE RDPDSID	HMASMIO HMASMIO	RW		HMASMRDP HMASMRDP HMASMRDP	0		HMASMRDS HMASMRDS								
RDPENTS RDPEOF	HMASMRDP HMASMIO	^В с		HMASMRDP	₽		HMASMRDS	R							
RDPFUNCT RDPGETN RDPGETNC	HMASMIO OIMZAMH OIMZAMH	R R		HMASMRDP HMASMRDP HMASMRDP	D D		HMASMRDS HMASMRDS HMASMRDS	С							
RDPGOOD RDPIOERR	HMASMIO HMASMRDP	РС		HMASMRDP HMASMRDS			HMASMRDS								
RDPNTCLS RDPNTOPN	HMASMRDP	D R C		HMASMRDS	R		UMAGMERO	5116							
RDPRETRN RDPTYPE RDPUSED	HMASMIO HMASMRDP HMASMIO	ם ד		HMASMRDP HMASMRDP			HMASMRDS HMASMRDS	RWC W							
RDPWKAD RDSADDGM	HMASMRDP HMASMRDS	D R			•										
RDSDELGM RDSGET RDSGMBFR	HMASMRDS HMASMRDS HMASMRDS														
RDSIOP RDSRDEOF	HMASMRDS HMASMRDS	DR DR													
RDSSW RDSVER	HMASMRDS HMASMRDS	D R													
READ READEOF	HMASMIO HMASMIO	DR DR		HMASMLKI	DR		HMASMREC	DR							
READRTN READ1 REC	HMASMREC HMASMCPY HMASMDR1	DR		HMASMPRM	С		HMASMREC		м						
RECBPFM RECDSPFX	HMASMREC HMASMREC	DRW		MILESITERIA	·		HITASTIREC		М						
RECEXC RECFMB	HMASMREC HMASMIO	DR													
RECFMF RECFMNL RECFMU	HMASMIO HMASMIO HMASMIO	DR DR C													
RECK RECLFLGS	HMASMDRV HMASMREC	D W													
RECORD RECPARM_	HMASMGTA HMASMREC	RW	P	HMASMUXP	R										
RECPRINT RECSAV RECSEL	HMASMAR1 HMASMDRV HMASMREC		M												
RECVSTAT RECX	HMASMPCL HMASMPRM			HMASMRCC		м	HMASMRCD		м	HMASMRCF		M	HMASMRCL		м
RECXAVER	HMASMREC HMASMREC	WC	M												
RECXCNT RECXDSPC RECXEXC	HMASMRCC HMASMRCD HMASMRCF	RW C		HMASMREC HMASMRCL	۳c		HMASMREC	W							
RECXFLG2 RECXFLG3	HMASMPEC HMASMREC	a a		MIASTIREE	Ŭ		HILASHREO	-							
RECXGPSP RECXGRFP	HMASMRCC HMASMRCD	R C	м Р	HMASMPEC HMASMRCF	RWC		HMASMREC	RWC			_				
RECXGSMP RECXGSRP RECXIOPG	HMASMRCC HMASMREC HMASMRCD	RW	мР	HMASMRCD HMASMRCL	R R	M	HMASMRCF HMASMREC	R RWC	P	HMASMRCL	R		HMASMREC	RW	
RECXIOPP RECXIOPT	HMASMRCC HMASMRCC	R		HMASMRCD HMASMRCF	Ř R	M	HMASMRCF HMASMREC	R C	,	HMASMREC	RWC				
RECXJCLF RECXLAST	HMASMREC HMASMRCC	WC RW		HMASMRCD	RWC		HMASMRCF	_W_		HMASMREC	R				
RECXMAX RECXMCB RECXMNDX	HMASMRCC HMASMREC HMASMRCC	RWC C		HMASMRCF HMASMRCF	RW		HMASMREC HMASMREC	RWC							
RECXPARM	HMASMRCC HMASMSER	R	P	HMASMRCD	·	F			P	HMASMRCL		F	HMASMREC	RW	,
RECXPELM	HMASMREC HMASMREC	MC													
RECXPIFS RECXPPTR RECXPROC	HMASMREC HMASMPEC HMASMREC	3 3 5 0													
RECXPTXT RECXPUPD	HMASMRCC HMASMREC	M OO		HMASMREC	MC										
RECXPVER	HMASMREC	RW RW													
RECXRELM RECXRFLE RECXRNXT	HMASMREC HMASMREC HMASMREC	RWC RWC RW													
RECXSCNT RECXSEL	HMASMREC HMASMRCF	RWC		HMASMRCL	С		HMASMREC	W							
RECXSEQ# RECXSYSF RECXSYSM	HMASMREC HMASMRCC HMASMRCC	Wc		HMASMREC	MC		UMAGMBEG	ыс							
RECXTXTF RECXVERF	HMASMRCC HMASMRCC	¥00		HMASMRCF HMASMREC HMASMRCF	36		HMASMREC HMASMREC	MC							
REDO REENTERD	HMASMTPA HMASMMSG	DR C			DR C										
REENTRANT REFR	HMASMCP2 HMASMLKI	R DP		HMASMSCN	R		HMASMTPS	R		HMASMTR1	R		HMASMTSB	R	
ŘĔFŜ	HMASMALC HMASMDRV	R R		HMASMASI HMASMDR1	R		HMASMASM HMASMDSU	R R		HMASMBDL HMASMGTA	R R		HMASMCOM HMASMIO	R	
	HMASMION	R R R		HMASMMSG HMASMSUB	R R R		HMASMRDS HMASMTBL	R		HMASMREC HMASMTCL	R R P		HMASMSER HMASMTDD	R	
REGACT REGAPARS	HMASMTL2 HMASMIDU HMASMAR3	DR C	P	HMASMUPD	R		HMASMUPI	R		HMASMUXC	R		HMASMZAP	R	
REGICTCK REGRIESSD	HMASMIDU HMASMAR3	DR C													
REGS	HMASMAAR HMASMAR4 HMASMCPL		M M M	HMASMALC HMASMASM		333	HMASMARI HMASMBUE		E E	HMASMAR2 HMASMBUR		MM	HMASMAR3 HMASMCIL		MM
	HMASMOLE HMASMDS1		¥	HMASMCPY HMASMDRV HMASMFPT		333	HMASMCP2 HMASMDR1 HMASMFVL		333	HMASMCRD HMASMDR2 HMASMFXF		MM	HMASMCRW HMASMDSU HMASMLCC		233
	HMASMLCD HMASMLOG		٩	HMASMLCP HMASMMPD		M	HMASMLC1 HMASMMPE		M	HMASMLID HMASMMPH		M	HMASMLKD HMASMMPI		M

RDPALLOC - REGS

Ĺ	MODULE	ACCES	s	MODULE	ACCE		MODULE	ACCES	s	MODULE	ACCES		10DUL E	ACCE	ss
.v_	HMASMMPV HMASMRCL HMASMTAI HMASMTDI HMASMTDI HMASMTMB HMASMTPL HMASMTPL HMASMTCB HMASMUCB HMASMUCB HMASMSCN	DRW	*****	HMASMPGC HMASMRED HMASMTEN HMASMTEC HMASMTEC HMASMTM HMASMTM HMASMTPO HMASMTRI HMASMUXC		*****	HMASMRED HMASMSUE HMASMTUL HMASMTLI HMASMTPA HMASMTPA HMASMTPA HMASMTPA HMASMTSB HMASMVLU		EEEEEEEE	HMASMRCD HMASMRJD HMASMTCR HMASMTCR HMASMTL3 HMASMTPS HMASMTPS HMASMUCD HMASMXRF	,	1	IMASMRCF IMASMSEC IMASMTAD IMASMTMD IMASMTMD IMASMTMD IMASMTPD IMASMTP2 IMASMUC2		*******
VE	HMASMSER HMASMCP2 HMASMMPV	D D RW		HMASMTCR HMASMMPD HMASMRCC	DR.		HMASMTR1 HMASMMPE HMASMRCF	DRW		HMASMMPH HMASMREC			HMASMMPI HMASMTCR		
	HMASMTMD HMASMRCC HMASMCP2	D		HMASMTMS HMASMRCF HMASMDLE	D		HMASMTR1 HMASMREC HMASMRCC	D R		HMASMTMD HMASMRCF	D	H	MASMTMS	D DR C	
rs	HMASMTCR HMASMDR1 HMASMREJ	D DR		HMASMTD1 HMASMPRM	DR		HMASMTMD	DR C		HMASMTMS	D	H	MASMTRI	D	
N D D NEPSNIP DCC 15 T 1	HITCHIST	00000000000000000000000000000000000000	M	HMASMRCL	υм										
NE TP	HMASMMPE HMASMTSB HMASMTSB	D DRW	P												
?	HMASMTSB HMASMTSB HMASMTSB	D DR	·												
)	HMASMTSB HMASMTSB	DRW DRW													
	HMASMMPE HMASMAR1 HMASMAR1	DRWC DRW	M												
	HMASMMPE HMASMMPE HMASMMPE	D	M M M												
	HMASMCPL HMASMCPL	D WC													
		D D													
	HMASMREC HMASMSUB HMASMMSG	DRWC		HMASMRDS	D PWC										
	HMASMUC1 HMASMLKI	D R D R	M	HMASMUCS		M	HMASMUC4	DR	M						
Α	HMASMGTA HMASMGTA HMASMUC1	RW DRW DWC	M	HMASMUC3	D MC										
	HMASMTMS HMASMCPI	DR DR		HMASMLKI			HMASMZAP	D							
	HMASMCIL HMASMLKD HMASMDSU	D		HMASMCPI	DR		HMASMLKD	D		HMASMRCD	DR	н	MASMTMW	DR	
:	HMASMZAP HMASMTMS	D MC													
	HMASMTMS HMASMAR1	DR C Dr		HMASMCP2	D	P	HMASMDR1	р с	P	HMASMMPV	D WC	н	MASMTR1	р с	
Y	HMASMTP2 HMASMTP2	DR	2												
	HMASMOP1 HMASMCP2 HMASMTPR		P	HMASMTPR	DR		HMASMTR1	DR							
	HMASMTPR HMASMTCR	DRW I	M												
L	HMASMREC		P												
	HMASMAR1 HMASMTCL HMASMTCL	DR		HMASMTCR HMASMTCR											
ı	HMASMTCL HMASMTCL	D DRW	P	HMASMTCR											
	HMASMLCC HMASMLCC	DR DR													

					\$	YMBO	L USAGE					
SYMBOL	MODULE	ACCES	S	MODULE	ACCE		MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
REQPTR REQSTAT REQTYPE REREAD	HMASMCP2 HMASMAR1 HMASMCP2 HMASMIO	D WC	Р м	HMASMTCL	DRW	P	HMASMTCR HMASMTCR		HMASMTR1	D C I	•	
RES RESCAN RESET	HMASMDR1 HMASMPRM HMASMCOM HMASMUPD	DR R DR	M	HMASMP14 HMASMCPI	DR DR		HMASMDR1	D	HMASMLOG	R	HMASMTMS	D
RESETFM RESETK RESETRC	HMASMASI HMASMDRV HMASMCPL	D	M									
RESETRPL RESETSAV RESETSW	HMASMUC1 HMASMDRV HMASMLCC	D R D	M M	HMASMUC3	DR	M						
RESK RESRC RESSAV RESTADD RESTCHK	HMASMDRV HMASMSUP HMASMDRV HMASMBUR HMASMTSB	DRW DD WC	м	HMASMTMJ	DRWC							
RESTREY RESTORE RESTORED RESTRE RESTRE RESTREQ RESTRICTE	HMASMGPF HMASMTRM HMASMAR1 HMASMTMJ HMASMBUR HMASMGPF	R R R W	P	HMASMAR 2	DR							
RETREG	HMASMCP2 HMASMTR1 HMASMRCC	R R R		HMASMTCR HMASMUCD HMASMRCF	RRR		HMASMTD1 HMASMUC2 HMASMRCL	R R R	HMASMTMD HMASMREC	R R	HMASMTMS HMASMTCL	R R
RETURNOD REUS_	HMASMTMD HMASMASI HMASMLKI	R DRW DR		HMASMZAP	DRW							
RFILE RFLKEY RFLLPAR RFLRPAR	HMASMMPH HMASMMPE HMASMMPE HMASMMPE	D	M M									
RFLSHCHR RFLUSHCH RFLVAL	HMASMUC3 HMASMUC1 HMASMMPE	D R D R	M	HMASMUC4	DR	M						
REMDSMDD REMDSMDV REMDXXX	HMASMUC3 HMASMUC3 HMASMUC3	D DR	M									
RFMID RFMID RFMIDV RGHEAD	HMASMUC3 HMASMDSU HMASMDSU HMASMAR3	D R D R	M M M	HMASMMPV HMASMMPI HMASMAR4	D	M						
RGHEAD1 RGHEAD2 RGHEAD3	HMASMAR3 HMASMAR3 HMASMAR4	000		HMASMAR4 HMASMAR4	D							
RGI RGRPTRC RIGHTVER	HMASMIDU HMASMAR3 HMASMTPC	D WC	F	1								
RJDIOP RJDPTSD RJDRLFD RJDRTNCD	HMASMRJD HMASMRJD HMASMRJD KMASMRJD	DR DR										
RK RLEN RLENREQ	HMASMCPY HMASMGPF HMASMGPF	D WC		HMASMRCD		M						
RLF# RLFDELRC RLFDSPRE	HMASMREJ HMASMRJD HMASMRJD	DRWC DR	P									
RLFPRE RLISTPTR RLMDALN2 RLMDAPF	HMASMREJ HMASMCP2 HMASMUC1 HMASMUC1	DR D	MM		DR	P						
RIMDCOPY RIMDDC RIMDNE	HMASMUC1 HMASMUC1 HMASMUC1	D	M M M									
RLMDOVLY RLMDREFR RLMDRENT	HMASMUC1 HMASMUC1 HMASMUC1	D	MM									
RLMDREUS RLMDSCTR RLMDSTD RLMDSYD	HMASMUC1 HMASMUC1 HMASMUC1 HMASMUC1	D	E E E E									
RLMDSYLB RLMDSYV RLMDXXX	HMASMUC1 HMASMUC1 HMASMUC1	D	M									
RLMD00 RLPTFENT RMACADD1	HMASMUC1 HMASMTCL HMASMUC1	DR DR	M P	HMASMTCR	DR	P						
RMACASML RMACASSM RMACDLBD RMACDLBV	HMASMUC1 HMASMUC1 HMASMUC1 HMASMUC1	В	E E E E									
RMACFMDD RMACFMDV RMACGASM	HMASMUC1 HMASMUC1 HMASMUC1	D	M M M									
RMACMAL RMACRMDD RMACRMDV	HMASMUC1 HMASMUC1 HMASMUC1	B	E E E E									
RMACSYD RMACSYV RMACUMID RMACXD	HMASMUC1 HMASMUC1 HMASMUC1 HMASMUC1	D	MM									
RMACXV RMACXXX RMAC00	HMASMUC1 HMASMUC1 HMASMUC1	D R	M									
RMD5KEY RMD5LPAR RMD5PPAR RMD5VALA	HMASMMPE HMASMMPE HMASMMPE	0000	M									
RMID RMIDERR RMIDEND	HMASMMPE HMASMTMS HMASMMPE	D WC	м									
RMIDKEY	HMASMMPE	₽	M	TE, C=COM	PARE.	 E=F	QUATE OPE	RAND, M=	MACRO, A=A	BSOLUTE.	PEPARAMET	 ER

				.	11100	USAGE						
SYMBOL	MODULE ACCE	:ss	MODULE	ACCE	SS	MODULE	ACCE	s s	MODULE	ACCESS	MODULE	ACCESS
DMTDVEVI	HMACMMDE D											
RMIDKEY1 RMIDLINE	HMASMMPE D HMASMLCD D	М										
RMIDLPAR RMIDLPA1	HMASMMPE D											
RMIDRPAR RMIDRPAL	HMASMMPE D HMASMMPE D											
RMIDVAL RMIDVALA	HMASMMPE D HMASMMPE D	М										
RMIDVALB RMODDAL	HMASMMPË D HMASMUC1 D	М										
RMODDALD RMODDLBD	HMASMUCI D HMASMUCI D	M M										
RMODDLBV RMODFMDD	HMASMUCI D HMASMUCI D	M M										
RMODFMDV	HMASMUCI D HMASMTMD DR	M										
RMODICT RMODIMDD	HMASMUC1 D	M										
RMOD L MOD RMOD RMDD	HMASMUC1 D	M										
RMOD RMD V	HMASMUC1 D	M M										
RMODTALD RMODUMDD	HMASMUC1 D HMASMUC1 D	M										
RMODUMID RMODXNAM	HMASMUC1 D HMASMUC1 D	M M										
RMODXXX RMOD00	HMASMUC1 DR HMASMUC1 D	М										
RNOJCL RNOJCLV	HMASMDRV DR HMASMDRV DR	M M										
RNPRE RNTCPAG	HMASMMPV D HMASMGTA DRW	M										
RNTCPAGN RNTCPAGP	HMASMGTA DRW HMASMGTA DRW											
RNTCPOS	HMASMGTA D W											
RNTCPOSP	HMASMGTA D W											
RNTCRCD RNTCRCDN	HMASMGTA D W											
RNTCRCDP	HMASMGTA DR C	P										
RNTLAST	HMASMGTA DRWC	;										
RNTSTATN RNTSTATP	HMASMGTA DRW HMASMGTA DRW											
ROUTSEND RPAREN	HMASMMPE DR HMASMCPY D	M	HMASMLKD	D C		HMASMLKI	DR					
RPAREN1 RPAREN2	HMASMCPY D HMASMCPY D	M	HMASMLKD		М							
RPAREN3 RPAREN4	HMASMDRV D HMASMDRV D	M M										
RPAREN6 RPAREN7	HMASMDRV D HMASMDRV D	M										
RPARENS RPRE	HMASMDRV D HMASMMPV D	м										
RPRNCNT RPTAPAR	HMASMDRV DRWC											
RPTARRAY RPTEMCS	HMASMIO DR HMASMAR3 D											
RPTENAME RPTENT	HMASMAR3 D HMASMIO D											
RPTENTRY RPTFRC	HMASMAR3 DRW HMASMAR1 DRW	•										
RPTHEAD RPTODCB	HMASMIO DR HMASMIO D	•										
RPTPROC RPTPTF#	HMASMSER DR											
RPTRC RPTRTN	HMASMARI DRWC		HMASMAR 2	DRWC		HMASMLID	DRWC					
RPTSTAT RPTSW	HMASMAR3 D											
RPTTYPE	HMASMAR3 D W	•	UMAGMENG									
RR RREPOO	HMASMTMD DRW	M	HMASMTMS HMASMUC3		M							
RREQV RREQV	HMASMMPV D HMASMMPI D	M										
RSCAN RSJ	HMASMCPY D HMASMBUR	М	HMASMPRM	С		HMASMTBL		M	HMASMTCL	м		
RSJASM RSJLMD	HMASMBUR R											
RSJMAP RSJPNAME	HMASMBUR R HMASMBUR W		HMASMTBL	DR								
RSJSMD RSJSNAME	HMASMBUR W HMASMBUR W											
RSJTYPE RSMDACC	HMASMBUR W HMASMUC1 D	м										
RSMDACCD RSMDAPP	HMASMUC1 D HMASMUC1 D	M M										
RSMDAPPD RSMDAPR	HMASMUCI D HMASMUCI D	M										
RSMDASM RSMDBYP	HMASMUCI D HMASMUCI D	M M										
RSMDDATE RSMDDBTD	HMASMUCI D HMASMUCI D	M M										
RSMDDBYV RSMDDEL	HMASMUCI D HMASMUCI D	M M										
RSMDDT RSMDDTD	HMASMUCI DR HMASMUCI D	• •										
RSMDDTV RSMDERR	HMASMUCI D HMASMUCI D	M										
RSMDFMDD RSMDFMDV	HMASMUCI D HMASMUCI D	M M	HMASMUC3	D	м							
RSMDFNC RSMDISUP	HMASMUCI D HMASMUCI D	M		_	••							
RSMDISTD RSMDISV	HMASMUC1 D HMASMUC1 D	M M										
RSMDMCR RSMDMCU	HMASMUCI D HMASMUCI D	M										
	ION, R=READ, W					MIATE AST		 M-M	ACBO 454		D-DARAM-	· · · · · · · · ·

RMIDKEY1 - RSMDMCU

					SYMBO	L USAGE					
SYMBOL	MODULE	ACCESS	MODULE	ACC	ESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
DR REFERENCE OF STATE	HMASMUCI HMASMUCS HMASMUCS HMASMUCI	***************************************	HMASMUC3	. D	м						
RSMDSCP RSMDSUP RSMDSUP RSMDDUSERSL RSSMDDV RRSMDDXXX RRSMDXXX RRSMDXXX RRSMDDY RRSMDY RRSMDY RRSMDY RRSMDY RRSMDY RRSMDY RRSMDY	HMASMUC1 HMASMUC1 HMASMUC1 HMASMUC1 HMASMUC1 HMASMUC1 HMASMUC1 HMASMUC1 HMASMUC1 HMASMUC1 HMASMUC1 HMASMUC1 HMASMUC1 HMASMUC1	EXERE EX EEX	HMASMUC3	DR							
RSMDZDEL RSMD00 RSRC00 RST	HMASMUC1 HMASMUC1 HMASMUC1 HMASMAR1	D M	HMASMUC3		M						
RSTC RSTCDONE RSTCFLGS	HMASMAR1 HMASMTSB HMASMTSB	D WC	HMASMAR 2								
RSTCHDRM RSTCIRQI RSTCPREI RSTCRC	HMASMTSB HMASMTSB HMASMTSB HMASMTSB	D D	P								
RSTCREQI RSTCSUPI RSTCTXT0	HMASMTSB HMASMTSB HMASMTSB	D W M	P			•					
RSTCX1 RSTCX2 RSTC1PRC RSTD	HMASMTSB HMASMTSB HMASMTSB HMASMAAR	DRWC	HMASMALO	P		HMASMARL	P	HMASMAR1	R	HMASMAR2	R
	HMASMAR3 HMASMBUE HMASMCPI	R R R	HMASMAR4 HMASMBUR HMASMCPL	RRR		HMASMASI HMASMCIL HMASMCPY	R R	HMASMASM HMASMCMP HMASMCP2	R R R	HMASMBDL HMASMCOM HMASMCRD	R R R
	HMASMDLE HMASMEIS HMASMIDU HMASMLC1	R R R	HMASMDRV HMASMFPT HMASMIO HMASMLID	RRR		HMASMDR1 HMASMFVL HMASMLCC HMASMLKD	R R R	HMASMDSU HMASMFXF HMASMLCD HMASMLKI	R R R	HMASMDS1 HMASMGTA HMASMLCP HMASMMPD	R R R
	HMASMPE HMASMPCD HMASMSEC HMASMTAD	R R R	HMASMMPH HMASMRDS HMASMSER HMASMTAI	R		HMASMREC HMASMSTA HMASMTBL	R R R	HMASMPEJ HMASMSUB HMASMTCL	R R R	HMASMRJD HMASMRJD HMASMSUP HMASMTDD	R R R
	HMASMTD1 HMASMTL3 HMASMTM2	R R R	HMASMTEC HMASMTMD HMASMTM3	RRR		HMASMTID HMASMTMJ HMASMTM4	R R R	HMASMTL1 HMASMTMW HMASMTPA	R R	HMASMTL2 HMASMTM1 HMASMTPC	R R R
RSTDSID	HMASMTPD HMASMTRM HMASMUPD HMASMTBL	R R R DR	HMASMTPL HMASMTSB HMASMUPI			HMASMTPO HMASMUC1 HMASMUXC	R R R	HMASMUC3 HMASMUC3 HMASMXRF	R R R	HMASMTP2 HMASMUC4 HMASMZAP	R R
RSTLST1 RSTLST2 RSTMENT RSTMNOGO	HMASMTSB HMASMTSB HMASMTSB HMASMTSB	DR DR DR M	P P								
RSTMRC RSTRERC RSTSMDM	HMASMTSB HMASMIDU HMASMTSB	DRW DRWC DR									
RSTX RST1CAND RST1ENT RST1FLGS	HMASMBUR HMASMTSB HMASMTSB HMASMTSB	D C	P P								
STIFND STIINCR STILSTD STIRC	HMASMTSB HMASMTSB HMASMTSB	DR DR	p P								
STIXI STIX2 STIX2 ST2DONE ST2ENT	HMASMTSB HMASMTSB HMASMTSB HMASMTSB	DRW DRW DW	p								
ST2FLGS ST2FND ST2INCR ST2IROF	HMASMTSB HMASMTSB HMASMTSB HMASMTSB	D W DRW DRW									
ST2LSTI ST2NDXI ST2PTFX ST2PTR	HMASMTSB HMASMTSB HMASMTSB HMASMTSB	DR C DRW	P								
ST2RC ST2SMD SUP	HMASMTSB HMASMTSB HMASMMPV	DRW D M									
SYSCDD SYSCDV SYSNCD SYSNCV	HMASMUC1 HMASMUC1 HMASMUC1 HMASMUC1	D M									
SYSPMD Syspmv Syssmts	HMASMUC1 HMASMUC1 HMASMUC1 HMASMUC1	M M M M									

					\$	MBO	USAGE						
SYMBOL	MODULE	ACCES		MODULE	ACCES		MODULE	ACCES	S	MODULE	ACCESS	MODULE	ACCESS
RSYSSRLV RSYSSSTS RSYSXXX	HMASMUC1 HMASMUC1 HMASMUC1	D DR	M M										
RSYSOO RTNCD	HMASMUCH HMASMAR4 HMASMAR4 HMASMOLE HMASMUCD HMASMUCD HMASMUCD HMASMUCH HMASMITH HMASMITH HMASMITH HMASMITH HMASMITH HMASMITH HMASMITH HMASMITH HMASMITH HMASMITH HMASMITH HMASMITH HMASMITH HMASMITH HMASMITH HMASMITH HMASMUXC		<u> </u>	HMASMASM HMASMCPY HMASMCPY HMASMCPY HMASMFCP HMASMFCC HMASMFCC HMASMTEC HMASMTEC HMASMTEC HMASMTEC HMASMTEC HMASMTEC HMASMTEC HMASMTPA HMASMTSB HMASMTSB HMASMTSB		EFFEFFFFFFFFFFF	HMASMARI HMASMBUE HMASMBUE HMASMBUE HMASMBUE HMASMFUC HMASMREU HMASMFUC HMASMTUL HMASMTUL HMASMTUL HMASMTUL HMASMTUL HMASMTUL HMASMUC		*************	HMASMBURD HMASMBURD HMASMBURD HMASMBURD HMASSMIH HMASSMIH HMASSMIH HMASSMIH HMASSMITM HMASSMITM HMASSMITM HMASSMITM HMASSMITP HMASSMIPP	***************	HMASMARI HMASMCIL HMASMLCD HMASMLCD HMASMLCD HMASMMPI HMASMST HMASMTAD HMASMTDD HMASMTDD HMASMTDD HMASMTDD HMASMTDD HMASMTPM HMASMTPM HMASMTPM HMASMTPM HMASMTPM	MEEREEREEREERE
RTNCODE	HMASMAR3 HMASMBUE HMASMBUE HMASMBUE HMASMFVI HMASMFVI HMASMICO HMASMICO HMASMMICO HMASMMICO HMASMTII HMASMTII HMASMTII HMASMTII HMASMTII HMASMTII HMASMTII HMASMTII HMASMTII HMASMTII HMASMTII	O OO O OOOO O		HMASMALC HMASMBUR HMASMCSU HMASMCSU HMASMCSU HMASMCSU HMASMCSU HMASMCSE HMASMCCL HMASMTCL HMASMTTD HMASMTTD HMASMTRA HMASMTRA HMASMCSH HMASMCSH HMASMCSH HMASMCSH HMASMCSH HMASMCSH HMASMCSH HMASMCSH HMASMCSH	COUCU COUCU COUCU		MMASMARI HMASMCII HMASMCSI HMASMCSI HMASMCTA HMASMMTA HMASMMTA HMASMTA	000000 0000 00		HMASMMEH HMASMMEH HMASSMELS HMASSMELS HMASSMELS HMASSMELS HMASSMEL HMASSME HMA		HMASMARZ HMASMCOM HMASMCOM HMASMFPT HMASMIIII HMASMMITIH HMASMSUIN HMASMSUIN HMASMSUIN HMASMTPA HMASMUU HMASMUU HMASMUU HMASMUU HMASMUU HMASMUU HMASMUU	COCC COCC
RTNERR RTNPTR RTNREG	HMASMDRV HMASMTMD HMASMALC HMASMMPH HMASMUXC	DRW R R	P	HMASMDRV HMASMMPI	RW RW		HMASMDSU HMASMMPV	R RW		HMASMIO HMASMRCD	DR RW	HMASMMPE HMASMUPD	D RW
RTYPUPD RVAABNDC RVACCAP RVAEPRNM RVAFREE RVAGET	HMASMUCI HMASMSER HMASMARR HMASMAKI HMASMZAP HMASMSTA HMASMSTA	2 2 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		HMASMSTA HMASMASI HMASMRCD	3 2 2 2		HMASMCIL HMASMSER	R W R		HMASMCOM HMASMSTA	RW W	HMASMCPI HMASMUPI	R W R W
RVAHDR RVAINIT RVAMAP	HMASMSTA HMASMSTA HMASMAAR HMASMLKI HMASMSTA	DR	M M M	HMASMASI HMASMPRM HMASMUPI	С	M M	HMASMCIL HMASMRCD HMASMZAP		M M	HMASMCOM HMASMREC	M M	HMASMCPI HMASMSER	M M
RVAMVS RVAPARM RVAREC RVASDWAP RVASDWFD RVATXT RVAVSI RVERS RVERS	HMASMAAR HMASMALH HMASMUPI HMASMUPEC HMASMSER HMASMSER HMASMSTA HMASMSTA HMASMMPV HMASMMPV HMASMMPV	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		HMASMASD HMASMZAP HMASMZAP HMASMSER	ያ ያ		HMASMCIL HMASMREC	R		HMASMCOM HMASMSER	R	HMASMCPI HMASMSTA	R RW
RXTRA RXTRADTA RXXXFNC RXXXLOC	HMASMMPI HMASMUC1 HMASMUC1 HMASMUC1	D DR DR	M	HMASMMPV HMASMUC3 HMASMUC3	D	м	HMASMUC4		м				
RXXXNAM RXXXTD RXXX00 R0	HMASMUC1 HMASMUC1 HMASMUC1 HMASMCPL HMASMSER HMASMUXC	D R D R D R	M	HMASMUC3 HMASMUC3 HMASMUC3 HMASMCRD HMASMTAD	D DR DR	M	HMASMUC4 HMASMUC4 HMASMDSU HMASMTAI	DR DR	М	HMASMIO HMASMTBL	DR DRW M	HMASMSCN HMASMTCL	D DRW
R1 R10	HMASMDRV HMASMSER HMASMUC2 HMASMSER	DRW DR DR		HMASMDSU HMASMTAD HMASMUPD	DRW		HMASMIO HMASMTAI HMASMZAP	DRW		HMASMMSG HMASMTBL		HMASMSCN HMASMTCL	DRW DRW
R11 R12 R13 R14	HMASMIO HMASMSCN HMASMIO HMASMSCN			HMASMSER HMASMSER HMASMMSG HMASMSER	DRW		HMASMSCN HMASMTAD			HMASMSER HMASMTAI		HMASMUCZ	DR
R15 R2 R3 R4 R5 R67	HMASMAPH HMASMGTC2G HMASSMSER HMASSMSER HMASSMSER HMASSER HMASSER HMASSER	3333 9333 000000	M M	HMASMSER HMASMMSG HMASMZAP HMASMSER HMASMSTA HMASMUC2	DRW DRW D		HMASMTAD HMASMSCN HMASMSTA HMASMUC2	DR DRW	м	HMASMTAI HMASMSER HMASMUC2	DRWC	HMASMSTA	DRW
R 8 R 9 S A V A D D R S A V A D D L I B S A V A P A R S A V A P P D S A V A S S E M	HMASMSER HMASMSER HMASMGTAI HMASMGTAI HMASMAR3 HMASMCPL HMASMCPL HMASMAR2	00000000		HMASMTM2 HMASMTM2			HMASMTM3			HMASMTPD	DRW		
SAVBUFAD	HMASMASI HMASMLCD	DRW	: =WRI	HMASMASM HMASMLCP TE, C=COM	DRW	E=E(HMASMDSU HMASMLID QUATE OPE	DRW	 M=M	HMASMFXF HMASMLKD ACRO, A=AI	DRW	HMASMLCC HMASMLOG P=PARAMET	DRW

RSYSSRLV - SAVBUFAD

				SYMBO	L USAGE					
YMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
AVBUFAD	HMASMREC		HMASMTM1	DRW	HMASMTPC	DRW	HMASMTP2	DRW	HMASMUC1	DRW
AVBUFFR	HMASMUC2 HMASMGTA		HMASMUC3	D W						
SAVCHAR	HMASMDRV	DRW								
AVCMOD	HMASMTMS HMASMUC1									
AVDATE	HMASMUC1	DRW								
AVDRMAP AVDSID	HMASMBUE HMASMBUE		HMASMFXF	D B M,	HMASMIO	DRW	HMASMLCC	DPM		
AVE	HMASMUC2	R								_
SAVEAREA	HMASMAAR HMASMLKI	R R	HMASMCOM HMASMRCC	R R	HMASMCPI HMASMRCF	R R	HMASMCPY HMASMRCL	R R	HMASMIO HMASMREC	R R
	HMASMTCL	R	HMASMTMD	R	HMASMUC2	R	HMASMUPD	Ř	HMASMUPI	P
AVECODE AVEDATE	HMASMDRV HMASML OG		P HMASMDR1	D C P	HMASMDR2	D C P				
AVEDLIB	HMASMTM4 HMASMLCC	DRWC								
AVEDSN AVEFMID	HMASMTM4		HMASMUC3	DRWC						
AVEIF AVEIFRC	HMASMTPC HMASMTPC	DR								
AVEKEY	HMASMAR 4									
AVEKEYL	HMASMTL1	DRW	HMASMTP2	D						
AVELEM	HMASMAR2 HMASMAR3									
AVENAME	HMASMAR3	D	HMASMFXF	D WC						
AVENDX	HMASMCIL HMASMAR3									
AVEPAG	HMASMAR3	D								
AVEPOS	HMASMAR3 HMASMAR3	D DRW								
AVERCD	HMASMAR3	D	UMACMBOE		HMASMRCL		UMACMBEC	-	UMAGMICI	
AVEREG	HMASMFCC HMASMTMD	R R	HMASMRCF	R	HMASMRCL	R	HMASMREC	R	HMASMTCL	R
AVEREGS	HMASMUXC									
AVERO AVER1	HMASMSER HMASMSER									
AVER14	HMASMSER	DRW								
AVER2 AVESYS	HMASMSER HMASMTM4	DRWC								
AVETYPE	HMASMAR4	DRW	HMASMFXF							
AVE1	HMASMCIL HMASMCIL		HMASMCOM HMASMCOM		HMASMCPI HMASMCPI		HMASMLKI HMASMLKI			
AVFIL	HMASMSUB	DRW				•		•		
AVFLAGS	HMASMTPC HMASMBUE		HMASMDS1	DRW	HMASMFXF	DRW	HMASMLCC	DRW		
AVICTSP	HMASMTBL	DR	HMASMTCL							
AVIOP AVIOPB1	HMASMDS1 HMASMTMD									
AVIOPB2	HMASMTMD	DRW								
AVIOPB3 AVIOPTR	HMASMTMD HMASMDSU									
AVKEY	HMASMGTA	DRW		_						
AVLEN AVLFMID	HMASMTBL HMASMTMS	D W	HMASMTCL	D						
AVLRLMO	HMASMTMS	DRW								
AVLRMID	HMASMTMS HMASMIO	DRW DR								
AVMGP	HMASMIO	DRW								
AVMGP1 AVMGP2	HMASMMSG HMASMMSG	DRW DRW								
AVMOD10	HMASMASM	DR								
AVNAME AVNNAME	HMASMBUE HMASMIO	DRW DRW								
AVONAME	HMASMIO	DRW								
AVPAGE AVPF	HMASMGTA HMASMCPL									
AVPFX	HMASMSUB	DW								
AVPTF#	HMASMAR2 HMASMAR3	D WC								
AVPTENM	HMASMBUE	DRW_								
AVPTFRG AVPTF17	HMASMAR3 HMASMDRV	D MC								
AVP8	HMASMCPL	DRW								
AVRCDAD AVRCD1	HMASMGTA HMASMLKD	DRM								
AVREG1	HMASMMPE	DRW								
AVREG14 AVRETRN	HMASMMPE HMASMDS1		HMASMIO	DRW						
AVRTN	HMASMDRV	DRW								
AVRTNCD AVRTYPE	HMASMCRD HMASMFXF	DRW								
AVRVANM	HMASMAAR	DRW	HMASMASI		HMASMCIL	DRW	HMASMCOM		HMASMCPI	DRW
AVR1	HMASMLKI HMASMDRV	DRW	HMASMRCD	DRW	HMASMUPI	DRW	HMASMZAP	DRW		
AVSCPCH	HMASMDRV	DRM								
AVSEFLG AVSEQNO	HMASMTMS HMASMLKD	DRW DRW								
AVSETAD	HMASMXRF	DRW								
AVSMD AVSP	HMASMSUB HMASMTBL	D W	HMASMTCL	D						
AVSTAT	HMASMAR3	D		_						
AVSYS AVTTR	HMASMIO HMASMIO	DRW DRW								
AVTYPE	HMASMAR 2	D WC	HMASMAR3	D	HMASMBUR	DRWC	HMASMFXF	DRW		
AVUSERL AV1	HMASMIO HMASMMPI	DRW DRW	HMASMMPV	DRW						
AV14	HMASMMPI	DRW	HMASMMPV							
BDASH1 BDASH2	HMASMLOG HMASMLOG									
BDATE	HMASMLOG	D W								
BDD Bfront	HMASMLOG HMASMLOG									
BHOURS	HMASMLOG	D M								
BKUPD	HMASMDLE									
BMINS	HMASMLOG	D W								

D=DEFINITION, R=READ, W=WRITE, C=COMPARE, E=EQUATE OPERAND, M=MACRO, A=ABSOLUTE, P=PARAMETER

SHEET BEST OF THE STATE OF THE	MODU AASMADDRYVVOGIOHMAASMADDRYVVOGIOHMAASMADDRYVVOGIOHMAASMADDRYVVOHMAASMADDRYVVOHMAASMADDRYVVOHMAASMADDRYVVOHMAASMADDRYVOONAMAASMADAASMADDRYVOONAMAASMADAASMADDRYVOONAMAAASMADDRYVOONAMAAASMADDRYVOONAMAAASMADAAAAANAAAAAAAAAAAAAAAAAAAAAAAA	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	S MEMME M PP P M	HMASMIO	DR	MODUĹE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
D PEG POGTR H P REG POGTR ARX CENTTOCH CENTTOC	HMASMLVAPGHOMENTAMENTAMENTAMENTAMENTAMENTAMENTAMENTA	3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M M P P P	HMASMIO	DR						
D PEG POGTR H P REG POGTR ARX CENTTOCH CENTTOC	HMASMLVAPGHOMENTAMENTAMENTAMENTAMENTAMENTAMENTAMENTA	3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M M P P P	HMASMIO	DR						
SEBYANNIAS SECOLODES SECOL	HMASSMORV HMASSMORD HMASSMORD HMASSMORV HMASSMORV HMASSMORV HMASSMORV HMASSMORV HMASSMORD HMASSM	OCCOCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	M M P P P	HMASMIO	DR						
REEQ POGTA RX CNTTOUP CREEQ POGTA RX CNTTOUP CREEP POGTA ALCO DERITOUP CREEP POSTANTAL RANGE P	HMASSMILLON HMASSM	ODDOODDOODDOODDOODDOODDOODDOODDOODDOOD	M M P P P	HMASMIO	DR						
PEQ PDG T PDG T PRE PDG T PRE PDG T PRE PDG T PRE PDG T PRE PDG T PRE PDG T PRE PDG T PRE PDG T PRE PDG T PRE PDG T PRE PDG T PRE PDG T PRE PDG T PRE PDG T PRE PDG T PRE PDG T PRE PDG T PRE PDG T PD	HMASSMISCON HMAASSMISCON HMAASS	ODDOOD ODDOODDOODDOODDOODDOODDOODDOODDO	M M P P	HMASMIO	DR						
SBCCAANIA SBCCAANIA	HMASMLY COLOR HMASSMEN COLOR HMASSME	ODD D DODDODDDDDDDDDDDDDDDDDDDDDDDDDDD	M P	HMASMIO	DR						
MPDGTT MPDGTT MPDGTTR MAIRREA A MIRE A A MIRE A MIRE A	HMAASSMSCOOL HM	O D D D D D D D D D D D D D D D D D D D	P P	HMASMIO	DR						
SCOODS SCO	HMASSMSCONN HMASSM	U	P P	HMASMIO	DR						
SCANDET N SCANDANA SC	HMASSMSCN HMASSMSCN HMASSMSCN HMASSMSCN HMASSMSCN HMASSMSCN HMASSMSCD HMASSMSCD HMASSMSCD HMASSMSCD HMASSMSCD HMASSMSCD HMASSMSCD HMASSMSCD HMASSMSCD HMASSMSD HMASSMSD HMASSMSD HMASSMSD HMASSMSCD	C	P P	HMASMIO	DR						
SCANVAR SCANVA	HMASSMSCON HMASSMSCON HMASSMSCON HMASSMSCON HMASSMSCON HMASSMSCON HMASSMRCOD HMASSMRCOD HMASSMRCOD HMASSMRODO HMASSMBURI HMASSMBURI HMASSMBURI HMASSMBURI HMASSMIOO	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P P	HMASMIO	DR						
AVA SCAND SC	HMASMSCN HMASMSCN HMASMSCN HMASMSCN HMASMSCD HMASMSCD HMASMSDD HMASMSDD HMASMBDR HMASMDD HMASMDD HMASMDD HMASMDD HMASMDD HMASMD HMASMD HMASMD HMASMD HMASMD HMASMD HMASMD HMASMD HMASMD HMASMB	ODDODDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	P P	HMASMIO	DR						
SCANDA SC	HMASMSCN HMASMSCN HMASMSCN HMASMSCN HMASMSCUR HMASMSUR HMASMBUR HM		P P	HMASMIO	DR						
SCARD CARD CARD CARD CARD CARD CARD CARD	HMASMSCN HMASMRCD HMASMRCDH HMASMRCDH HMASMBUR HMASMBUR HMASMBUR HMASMIO HMASMIO HMASMIO HMASMIO HMASMIO HMASMIO HMASMICO HMASMICO HMASMBUR		P P	HMASMIO	DR						
SCARD SCDATA SCDCOL SCDLOCX SCDS SCDS SCDSSDENT SCDSSENTN SCDSENTN SCDSENTD SCDSSIDCB SCDSSIDCB SCDSSIDCB SCDSSIDCB SCDSSIDCB SCDSSIDCB SCDSSIDCB SCDSSIDCB SCDSSIDCB SCDSSIDCB SCDSSIDCB SCDSSIDCB SCDSSICR SCDSS	HMASMRCD HMASMRCDH HMASMBUR HMASMBUR HMASMBUR HMASMIO HMASMIO HMASMIO HMASMIO HMASMIO HMASMIC		P P	HMASMIO	DR						
SCDATA SCDCOL SCDLOCX SCDLOCX SCDLOCX SCDSDS SCDSDENT SCDSDENT SCDSENT SCDSENT SCDSEND SCDSTDCB SCDSTDCB SCDSTDCB SCDSTDCB SCDSTDCB SCDSTDCB SCDSTDCB SCDSTDCB	HMASMRCD HMASMBUR HMASMBUR HMASMBUR HMASMIO HM		P P	HMASMIO	DR						
SCDLOCRC SCDLOCX SCDSDCB SCDSDCB SCDSDENT SCDSDENT SCDSENT SCDSENT SCDSEND SCDSTDCB SCDSTDCB SCDSTDCB SCDSTDCB SCDSTDCB SCDSTDCB SCDSTDCB	HMASMBUR HMASMORI HMASMIO HMASMIO HMASMIO HMASMIO HMASMIO HMASMICO	RW W W W	P	HMASMIO	DR						
SCDSSPT SCDS	HMASMIO HMASMIO HMASMIO HMASMIO HMASMIO HMASMUR HMASMICO HMASMICO HMASMICO HMASMICO HMASMICO HMASMICO HMASMICO HMASMICO HMASMICO HMASMICO HMASMICO HMASMICO HMASMICO HMASMICO	C	P	HMASMIO	DR						
SCDSDENT SCDSDENT SCDSENT SCDSEND SCDSIOP SCDSIOP SCDSK SCDSPTR	HMASMIO HMASMIO HMASMIOO HMASMIOO HMASMIOO HMASMIOO HMASMIOO HMASMICOV HMASMICOV HMASMICOV HMASMICOV HMASMICOV HMASMICOV HMASMICOV HMASMICOV HMASMICOV HMASMICOV HMASMICOV HMASMICOV	C	P	masile	-						
SCDSENT SCDSENT SCDSEND SCDSIDCB SCDSIOP SCDSSK SCDSSCDS SCDSPTR	HMASMIDO DV HMASSMILORO CO V HMASSMILORO CO V HMASSMILORO CO V HMASSMID RUT HMASSMI	C W W W W									
SCDSENT SCDSFND SCDSIDCB SCDSIOP SCDSODCB SCDSODCB SCDSPTR	HMASMIO HMASMIDO HMASMIDO DHAMASMIDO DHAMASMIDO DHAMASMIDO DHAMASMIDO DHAMASMIDO PRINCIPAL PROPERTO DE	W W W W									
SCDSIDCB SCDSIOP SCDSK SCDSODCB SCDSPTR	HMASMICOD HMASMICOD HMASMICOD HMASMICOV HMASMICOV HMASMBUTH HMASMBUTH HMASMBUTH HMASMBUTH HMASMICOG	DR DRW DDRW DD WC									
SCDSIOP SCDSK SCDSODCB SCDSPTR	HMASMDRV HMASMIOD HMASMIOV HMASMBUR HMASMBUR HMASMFPT HMASMFCDG	DD DD DD DD									
SCDSODCB SCDSPTR	HMASMIO HMASMIO HMASMIO HMASMBUR HMASMFCD HMASMFCD HMASMCOG	DRW DD WC	м								
	HMASMIO HMASMBUR HMASMBUR HMASMFPT HMASMRCD HMASMLOG	D WC	м								
SCDSRTN	HMASMBUR HMASMBUR HMASMFPT HMASMRCD HMASMLOG	D WC	M								
SCDSSAV	HMASMFPT HMASMRCD HMASMLOG	D									
	HMASMRCD HMASMLOG	D C	P	HMASMLCD	DRW						
SCEND	HMASMPRM										
SCL		С		HMASMTBL	M	HMASMTPA	M	HMASMTPL	M	HMASMTPR	M
	HMASMLCD HMASMTPA	DWC		HMASMTPL	W						
SCLDELP	HMASMTPA	C		HMASMTPL	W						
	HMASMTPA HMASMTBL		M	HMASMTPL	W						
SCLISTNO	HMASMTPA	RWC	P	HMASMTPL HMASMTPA	WC DRWC						
SCLLI	HMASMTBL HMASMTPA	D C	P	HMASMTPL	RC						
SCLL2 SCLL3	HMASMTPA HMASMTPA	D C	P	HMASMTPL HMASMTPL	R R						
SCLL4	HMASMTPA	D		HMASMTPL	R						
	HMASMTPA HMASMTBL			HMASMTPL HMASMTPA	R Dr P	HMASMTPL	RW				
SCLREDO	HMASMTPA	C		HMASMTPL HMASMTPL	W						
	HMASMTPA HMASMTPA	DR									
	HMASMTPA HMASMTPA	RWC RW	M P	HMASMTPL HMASMTPL	W						
SCLVERNO	HMASMTPA	R	P	HMASMTPL	ũ						
SCNCALL	HMASMMPH HMASMMPI	DR DR		HMASMMPV	DR						
SCNRC	HMASMMPI HMASMSCP			HMASMMPV	DRW						
SCPBAD	HMASMMPD	С		HMASMMPE	С	HMASMMPH	С	HMASMMPI	ç	HMASMMPV	Ç
	HMASMREC HMASMZAP	ç		HMASMSCN	R	HMASMSCP	D	HMASMUC2	С	HMASMUC3	С
SCPCHAR	HMASMASM	МŢ		HMASMCPY	_W	HMASMCPD	_W	HMASMDRV	RM	HMASMDSU	RW
	HMASMLCP HMASMMPI	RW		HMASMLKD	RM RM	HMASMREC	RW W	HMASMMPE	RM RM	HMASMSCP	DWM
	HMASMUC1 HMASMZAP	RW		HMASMUC2	RW	HMASMUC3	RW	HMASMUC 4	RW	HMASMUPD	RW
SCPCOMNT	HMASMDRV	W		HMASMLCP	W	HMASMMPD	W	HMASMMPE	W	HMASMMPH	_ W
	HMASMMPI HMASMMPE	¥		HMASMMPV HMASMMPH	M	HMASMREC HMASMMPI	W	HMASMSCN HMASMMPV	wC	HMASMSCP HMASMREC	DW
	HMASMSCN	С		HMASMSCP	D ^						
SCPEOR	HMASMSCN HMASMCPY	RW		HMASMSCP HMASMDRV	M _C	HMASMUC4 HMASMMPD	^R W	HMASMUPD HMASMMPE	RW	HMASMMPH	W -
	HMASMMPI HMASMREC	Ŵc		HMASMMFV HMASMSCP	W	HMASMREC	W	HMASMSCP		HMASMZAP	W
SCPGOOD	HMASMASM	č		HMASMCPY	С	HMASMCRD	R	HMASMDRV	С	HMASMDSU	R C
	HMASMLCP HMASMMPV	R R		HMASMLKD HMASMREC	R C R	HMASMMPD HMASMSCN	R C	HMASMMFE HMASMSCP	R C	HMASMMPH HMASMUC1	R C
	HMASMUC2	RC		HMASMUC4	С	HMASMUPD	ŘČ	HMASMZAP	C		
SCPINLN	HMASMASM HMASMLKD	W		HMASMCPY HMASMMPD	W W	HMASMDRV HMASMMPE	W	HMASMDSU HMASMMPH	W W	HMASMLCP HMASMMPI	W
	HMASMMPV	W		HMASMREC	Ŵ	HMASMSCN	R	HMASMSCP	D	HMASMUPD	W
SCPIOERR	HMASMZAP HMASMSCP	DW									
SCPIOPAD	HMASMDRV HMASMMPV	W		HMASML CP HMASMREC	W	HMASMMPE HMASMSCN	R	HMASMMPH HMASMSCP	D W	HMASMMPI	W
SCPIORTN	HMASMASM	W		HMASMCPY	W	HMASMDRV	W	HMASMLCP	W	HMASMLKD	W
	HMASMMPD HMASMREC	W W		HMASMMPE HMASMSCN	R C	HMASMMPH HMASMSCP	DW	HMASMMPI	W	HMASMMPV	W
SCPNDSCN	HMASMASM	₽ [^] C		HMASMLCP HMASMSCP	R	HMASMLKD	Ř R	HMASMMPD HMASMUC3	R R	HMASMREC HMASMUPD	R R
	HMASMSCN HMASMZAP	R				HMASMUC1		nniASHUU3	ĸ	HEMSHUPU	
SCPNOCT SCPNODSC	HMASMSCN HMASMSCP	ьс		HMASMSCP	D						
SCPNODST	HMASMSCP	Ď		UMA CHOOS		HMASHIIGS	МС	HMASMILES	L.I	HMACHICZ	ы
•	HMASMSCN HMASMUC4	wC		HMASMSCP		HMASMUCI	MC	HMASMUC2	W	HMASMUC3	W
SCPNOSUC	HMASMDRV HMASMASM	RWC		HMASMSCN HMASMCPY	RWC	HMASMSCP HMASMDRV		HMASMUC2 HMASMDSU	RW	HMASMLCP	WC
D=DEFINITION				• • • • • • • • •	• • • • • • • •			• • • • • • • • •			• • • • • • • •

SBSECS - SCPPMLN

MBOL	MODULE	ACCESS	MODULE	ACCESS	LUSAGE Module Access	MODULE ACCESS	MODULE ACCESS
PPMLN	HMASML KD HMASMREC	RW RWC	HMASMMPE HMASMSCN	R RW	HMASMMPH R HMASMSCP D	HMASMMPI R HMASMUCI RWC	HMASMMPV R HMASMUC2 RWC
PPTR	HMASMUC3 HMASMASM HMASMREC	RWC DRW DRW	HMASMUC4 HMASMCPY HMASMUC1	RWC DRW DW	HMASMUPD RWC HMASMCRD DRW HMASMUC2 D W	HMASMZAP R HMASMLKD DRW HMASMUC3 D W	HMASMRCL D HMASMUC4 D W
PRET	HMASMASM HMASML KD	WC	HMASMCPY HMASMMPD	RWC	HMASMCRD W HMASMMPE RWC	HMASMDRV RWC HMASMMPH RWC	HMASMDSU WC HMASMMPI WC
	HMASMMPV HMASMUC2	₩C	HMASMPEC HMASMUC4	RWC RW	HMASMSCN WC HMASMUPD RWC HMASMLCP RW	HMASMSCP D HMASMZAP RWC	HMASMUC1 RW HMASMMPD R C
PRETRN	HMASMCRD HMASMREC HMASMUC4	R C RWC	HMASMDRV HMASMSCP	D W	HMASMLCP RW HMASMUC1 RWC	HMASMLKD WC HMASMUCZ RWC	HMASMMPD R C HMASMUC3 WC
PRTERR PSRCH	HMASMMPE HMASMASM	WC W	HMASMMPI HMASMCPY	WС Н	HMASMMPV WC	HMASMSCP D HMASMDSU W	HMASMLCP W
	HMASMLKD HMASMMPV HMASMUC2	W W	HMASMREC HMASMUC3	M M	HMASMMPE W HMASMSCN R HMASMUC4 W	HMASMMPH W HMASMSCP D HMASMUPD W	HMASMMPI W HMASMUCI W HMASMZAP W
PSTOP	HMASMASM HMASMMPE	R R	HMASMCPY HMASMMPH	R R	HMASMDRV R Hmasmmpi R	HMASMDSU R HMASMMPV R	HMASMLKD R HMASMSCN C
PSTORE	HMASMSCP HMASMUPD HMASMREC	D R DR	HMASMUC1 HMASMZAP	R	HMASMUC2 R	HMASMUC3 R	HMASMUC4 R
PSTRNG	HMASMASM HMASMMPE	ŘC	HMASMCPY HMASMMPI	R R	HMASMDRV R C	HMASMDSU R C HMASMPEC R	HMASMLKD R C HMASMUC1 R
PWKAR	HMASMUC2 HMASMSCN	R C	HMASMUC3 HMASMSCP		HMASMUC4 R	HMASMUPD R	
RATCH RDEVT RECORD	HMASMALC HMASMALC HMASMTBL	D W DRW					
R L RMOD	HMASMALC HMASMTMD	DR DR F	HMASMTMS	DR P			
RPARMS RSTAT RVOL	HMASMALC HMASMALC HMASMALC	DR C					
RWRKX R1DCB	HMASMTMD HMASMIO	D R	HMASMTMS	DR			
RIENT RIRTN	HMASMIO HMASMIO	DD					
R2DCB R2ENT R2RTN	HMASMIO HMASMIO HMASMIO	000					
SMD TBlptr	HMASMRCD HMASMSCN	DRW					
TR U 72	HMASMEIS HMASMEOD	DR D					
ATA ATES	HMASML OG HMASML OG	D					
ATLIM DEC DLIM	HMASMLOG HMASMLOG HMASMLOG	DW					
SINDX WAABCC	HMASMEIS HMASMSER	DRW					
WAPARM Waptr ASM	HMASMSER HMASMSER HMASMDRV	DRW	HMASMLID	С	HMASMSET D	HMASMTRM W	HMASMXRF W
BCHH BCHMS	HMASMF PT HMASMF PT	DR DR	HMASMLOG HMASMLOG	DR DR			
BCMM BCMONS BCSS	HMASMFPT HMASMLOG HMASMFPT	DR	HMASMLOG HMASMLOG				
CAPPAC CARRY1	HMASMSEC HMASMSEC	DR DR					
CBITS CDELET CDELEC	HMASMSEC HMASMSEC HMASMSEC						
CHEAD CHK	HMASMAR1 HMASMREC	D DR	HMASMAR2	D	HMASMRCL D		
CNAME	HMASMZAP HMASMSEC	DR					
CRETCD DLB EXCLUD	HMASMSEC HMASMDRV HMASMDRV	DRW W WC	HMASMLID HMASMSET	С	HMASMSET D		
FLAGS FLAG2	HMASMDLE HMASMSET	D W	HMASMSET	D	UMARMENT II	HMASMTPR WC	
FLAG2A FLAG2B FLAG2C	HMASMSET HMASMSET HMASMSET	D	HMASMTPA	MC	HMASMTPL W	HMASMTPR WC	
FLAG2D FLAG2E	HMASMSET HMASMSET	D					
FLAG2F FLAG2G FLAG2H	HMASMSET HMASMSET HMASMSET	D					
FMD FMID	HMASMDRV HMASMSET	DW	HMASMLID	C	HMASMSET D		
FOUND GPOUP LCEOF	HMASMLID HMASMDRV HMASMTPA	D D OO O	HMASMREC HMASMSET HMASMTPR		HMASMSET D		
LCFLGS LCHK	HMASMTPA HMASMTPA	D W	HMASMTPR HMASMTPR HMASMTPR	D W DR			
LCHKRC LDSID LECT	HMASMTPA HMASMLID HMASMCIL	DW	HMASMCPI		HMASMTMD D	HMASMTPA D	HMASMTPL D C
LECTSW	HMASMCPY HMASMCPI	D WC	_				
LECT2 LEXCL LFNAME	HMASMCPI HMASMTMS HMASMTPA	DRW DR F	HMASMTPR				
L F N D L F N D R C	HMASMTPA HMASMTPA	DR DRW	HMASMTPR HMASMTPR	DR			
L H D 2 L H D 3	HMASMLID HMASMLID HMASMLID	DR DR					
LID LIOP	HMASMLC1 HMASMLC1	DR F					
LIST Lk	HMASML ID HMASMCPY	B	HMASMDRV	D M			

SCPPMLN - SELK

				311	BOL USAGE					
SYMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE ACCE	SS M	DDULE	ACCESS
SELMD	HMASMDLE	W	HMASMDRV	W	HMASMLID	С	HMASMSET D	н	MASMXRF	W
SELMFLGS SELMMFND	HMASMTRM HMASMTRM	D W DRWC								
SELMNAME SELMO#2	HMASMTRM HMASMTRM	С								
SELMOD	HMASMCIL HMASMTRM	DRWC	HMASMCPI	DRWC	HMASMTRM	DR				
SELMONUM SELMPTR1	HMASMTRM	DRW								
SELMPTR2 SELMRC	HMASMTRM HMASMTRM	DRW								
SELMTYPE Selmx1	HMASMTRM HMASMTRM	DRW								
SELMX2 SELMX3	HMASMTRM HMASMTRM	DRW								
SELNAME SELRC	HMASMLID HMASMLID		HMASMREJ	DRWC						
SELRPT Selsav	HMASMLID HMASMDRV									
SELSTENT	HMASMDLE HMASMTMJ	R	HMASMDRV HMASMTRM		HMASMLID HMASMXRF	R R	HMASMREC R	H	MASMSET	D
SELSTFLG	HMASMDLE HMASMTRM	W	HMASMDRV		HMASMSET	D	HMASMTPA W	н	MASMTPL	W
SELSW Seltype	HMASMCIL HMASMLID									
SEMAC SEMCS	HMASMDRV HMASMDRV	W	HMASMLID HMASMLID		HMASMSET HMASMSET		HMASMTRM W	H	MASMXRF	W
SEMOD	HMASMDRV	W	HMASMLID	č	HMASMSET		HMASMTRM W	н	MASMXRF	W
SEMODID Sename	HMASMIDU	W	HMASMDRV HMASMTMJ		HMASMLID HMASMTPA		HMASMREC W HMASMTPL W		MASMREJ Masmtpr	W
	HMASMSET	W	HMASMXRF		HIMSHIPA	H 17	mashire W	n	FR	-
SENDATE SENOJCL	HMASML OG HMASMDRV	W	HMASMSET	D						
SENTEND SENTRY	HMASMIDU HMASMIDU	RW								
SEOF SEPTFNO	HMASMEIS HMASMDRV	R	HMASMSET	D						
SEPTR SEQ	HMASMIDU HMASMRCD	M	HMASMRIO							
SEQFLOW SEQINCR	HMASMASI HMASMASM		HMASMSER							
SEQNO SEQPACK	HMASMASM HMASMASM		HMASMLKD	DRW						
SEQREQ SEQUENCE	HMASMRIO HMASMASM	D WC								
SERHIRC	HMASMSER HMASMTPA	DRWC								
SESAV SESELECT	HMASMDRV HMASMDLE	ĎR M	HMASMDRV	, MC	HMASMREC	С	HMASMSET D	н	MASMTRM	W
SESMD	HMASMDRV HMASMTMJ	WC	HMASMLID HMASMTPA	C	HMASMREC HMASMTPL	WC W	HMASMREJ W HMASMTPR W		MASMSET Masmxrf	DW
SESMDNO	HMASMREC HMASMTPR	RW M	P HMASMREJ		HMASMSET	D	HMASMTPA RW	м н	MASMTPL	RW
SESRC Sestat	HMASMDRV HMASMIDU	W	HMASMLID	C	HMASMSET	D	HMASMTRM W			
SESYS	HMASMDRV HMASMLOG	W	HMASMLID HMASMTMS		HMASMSET HMASMUXP					
SET_FOUND	HMASMTPA		HMASMTPR							
ETAB ETCAND	HMASMMPH HMASMTPR	D								
SETCAND 2 SETCONT	HMASMTPR HMASMSET	DR								
SETDSECT SETDSID	HMASMSET HMASMFPT	C DRW	HMASMTPA HMASMLCD		HMASMTP L HMASML CP	R DRW	HMASMTPR R	н	MASMTRM	R
SETFB SETFUNCT	HMASMMPH HMASMGPF	R								
SETGTP SETINCR	HMASMXRF HMASMTPR	DR	P							
SETMPE SETMPH	HMASMMPD HMASMMPD	DR								
SETMPI SETMPV	HMASMMPD	DR								
SETNDXO SETNFND	HMASMTPR HMASMTPR	DR	P							
ETNODST	HMASMSET	D								
SETPE SETPER	HMASMMPH HMASMLID	DRW	HMASMXRF							
SETRC SETS	HMASMLID	R	HMASMTPR HMASMCPL		HMASMTBL	R				
SETSSI SETUB	HMASMZAP HMASMMPH	D	UM							
SETUP SETUPRC	HMASMMPI HMASMBUR	DRWC	HMASMMPV HMASMEIS		HMASMTBL	DRW				
SETVP2 SETX	HMASMMPE HMASMTPR	DRW								
SETYPIND SET2END	HMASMIDU HMASMIPR	D WC								
SETZENT Setzflgs	HMASMTPR HMASMTPR	D	•							
SET2NFND SET2OFST	HMASMTPR HMASMTPR	DR I	•							
SET2RC Sev	HMASMTPR HMASMTAD	M	HMASMTAI			M	HMASMTDD	м н	MASMTPA	•
EVCODE	HMASMTPL HMASMSER	D M	HMASMTSB	. M	HMASMUC2	М				
SEVERITY SF_	HMASMMSG HMASMIO	M								
SFP SFPFND	HMASMTPO HMASMTPO	D WC								
SGTDCB SGTENT	HMASMIO HMASMIO	D								
SGTPINDX Sheadrs	HMASMEIS HMASMLOG	D								
SHEADR1 Sheadr2	HMASML OG HMASML OG	DR								
SHHMMSS	HMASMLOG	ďΜ								

					USAGE			
SYMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE ACCESS	MODULE ACCESS
SI	HMASMTMD	DR C P						
SICDS Sign	HMASMTP2 HMASMCIL	DW	HMASMCOM	D W DRW M	HMASMCPI	D W M	HMASMLKI D W HMASMRDS DRW M	HMASMSUB DRW M
SIZE Sk	HMASMDRV HMASMUPD HMASMCPY	DRW M	HMASMDSU	DRW M	HMASMIO	DRM M	HMASMKUS UKW M	HMASMSOB DRW M
SKIP	HMASMCP2 HMASMREC	DR DR	HMASMGPF HMASMREJ	R	HMASMMCD HMASMRIO	R R	HMASMPMG R HMASMTMD DR	HMASMP15 R HMASMTMS R
SKIPCODE	HMASMXRF HMASMTPA	D WC						
SKIPELEM SKIPLOOP	HMASMTMD	DRWC						
SKIPPED Skiprc Skiprdj f	HMASMAR2 HMASMTMD HMASMIO	DRW P						
SKIPREAD SKIPSW	HMASMUPD HMASML ID							
KIPTEXT KPN	HMASMTMW HMASMREC	DR	HMASMTMD	DR P				
LASH LASHAST	HMASML KD HMASMASM	D	HMASMCPY		HMASML KD	D C	HMASMSCN D C	HMASMUPD DR C
LASHES Lashk	HMASMUPD HMASMUPD	D C						
LASHK2		DR M						
LDL LENGTH	HMASMSUB HMASML OG	R D R						
LIMITS LL LOGDATE	HMASMLOG HMASMSER HMASMLOG	R	HMASMSUB	R				
LOGDDF	HMASML OG HMASML OG	DR						
LOGMINS	HMASMLOG HMASMLOG	Ď						
LOGTIME SLOGYY	HMASMLOG HMASMLOG	D.R						
SLRC SM#ID	HMASMDS1 HMASMREC	DR						
M#VALUE	HMASMREC HMASMREC	DR C P						
MCTTYPE	HMASMREC HMASMEIS HMASMREJ	DR D DRW P	HMASMUC3	D				
MD# MD#CDS MD#ICT	HMASMTCR HMASMTCR	DR P	1					
SMDADD SMDADDLP	HMASMUC3 HMASMUC1	DR C						
SMDADD2 SMDAPPLY	HMASMUC1 HMASMTM1	DR	HMASMTM2	D WC	HMASMTM3	D WC		
SMDARRYO SMDARRY1	HMASMFPT HMASMFPT							
SMDARRY2 SMDARRY3	HMASMFPT HMASMFPT	D P)					
SMDARRY4 SMDBYRC	HMASMFPT HMASMFXF	DRWC	1					
SMDCARRY SMDCAUSR SMDCHEAD	HMASMEPT HMASMLCC HMASMEPT	DRWC	HMASMLCD	п	HMASMLCP	D		
SMDCKRC SMDCK1	HMASMCPL HMASMCPL	DRW	III IA GITE CD	•	III AGITE G	•		
SMDCLEN SMDCODE	HMASMFPT HMASMUC3	D WC	HMASMLCD	D	HMASMLCP	D		
SMDCTYPE SMDCVER	HMASMF PT HMASMF PT	D C	HMASML CD	D	HMASMLCP	D		
MDCVERN MDDEL	HMASMF PT HMASMUC3	DR C						
SMDDSN SMDENTRY	HMASMLCC HMASMLID	DR						
SMDENV SMDEXIST SMDFMID	HMASMLCC HMASMUC3 HMASMUC3	DR C						
SMD FMNUM SMD HEAD	HMASMLCC HMASMLCC	DRW						
MDHEAD 2	HMASMLCC HMASMFXF	DR D						
MDICT	HMASMTPA HMASMTPR			DR				
MDICTP MDICTRC	HMASMTEC HMASMTPR	DRWC						
MDID MDIFLGS	HMASMTD1 HMASMTPR	D	,					
MDIIOP MDIOP MDK	HMASMTPR HMASMTEC HMASMDRV	DR P	HMASMTPC	DR P				
MDKEY MDKEY1	HMASMUC3 HMASMLCC	DRW						
MD NAME MD NG1	HMASMTMD HMASMCPL	D C P	•					
MDNG2	HMASMCPL HMASMLCC	DRW						
MDOK1	HMASMCPL HMASMTD1		,					
MDRC MDRCD MDREJ	HMASMLCC HMASMLCC HMASMREJ	DR	HMASMUC3	DR				
MDREQ MDTYPE	HMASMUC3 HMASMREJ	D W	HMASMTAD	D C	HMASMTPR	D F	•	
MDUPD MHDTYPE	HMASMCPL HMASMREC	D WC M						
MHEAD	HMASMREC HMASMTPA	DRW P						
MIIOP	HMASMTPA HMASMTPA	DRWC'						
SMISCL SMMLIM SMODNAME	HMASMTPA HMASMLOG HMASMDLE	D C						
MODPTR	HMASMDLE	DRW P						

							USAGE						
MBOL	MODULE	ACCE	SS	MODULE	ACCE		MODULE	ACCI	:SS	MODULE	ACCESS	MODULE	ACCE
1P	HMASMASI	р с		HMASMDR1	DR								
1P_NOTDB	_DCL _HMASMTBL	D											
1P_TBL_T													
IP_TBL_T	BM2												
P_TBL_T	HMASMTBL BM3												
P_TBL_T	HMASMTBL Cl												
 PTBLT	HMASMTBL	D											
	HMASMTBL	D											
IP_TBL_T	HMASMTBL	D											
IP_TBL_TI	HMASMTBL	D											
P_TBL_T	PO HMASMTBL	D											
PACDS	HMASMCOM	DR C		OIMSAMH		M							
PACRQ Parray	HMASMIO HMASMIO	DR	М										
PCDS PCNTL	HMASMASI HMASMIO	D C	м	HMASMCOM	DR C	;	HMASMIO		М	HMASMION	D C	HMASMTM4	DR
PCODE	HMASMTMW HMASMIO	D C											
PEXIT	HMASMUXC	R											
PJCLIN PLBLTC	HMASMIO HMASMASI	D	M	HMASMCPI	D		HMASMLKI	D		HMASMMSG	D	HMASMUPI	D
PLBLTD	HMASMZAP HMASMDC1	D		HMASMMSG	D								
PLBLTE	HMASMASI	Ď		HMASMCPI	D		HMASMLKI			HMASMUPI		HMASMZAP	
PLBLTP	HMASMASI HMASMUPI	D		HMASMCOM HMASMZAP	Ď		HMASMCPI	U		HMASMLKI	U	HMASMMSG	U
PLBLO Plbl1	HMASMTBL HMASMCRD	D		HMASMTBL	D								
PIBI2 PIBI3	HMASMTBL HMASMTBL	D											
PLBL7	HMASMTBL	Ď											
PLIST	HMASMDSU HMASMIO		M	HMASMIO		М							
PMTS	HMASMCOM HMASMUPI			HMASMIO		М	HMASMTMD	DR		HMASMTM2	DR	HMASMTM4	D
POUT	HMASMIO HMASMIO	•	M	HMASMUXP									
PPTS	HMASMASI	D		HMASMCOM	DŘ		HMASMIO		M	HMASMRCD	DR		
PPUNCH PRCS	HMASMIO HMASMDRV	D W	М										
PRPT PSCDS	HMASMDSU HMASMIO	DR	м	HMASMIO		M							
PSTS	HMASMASI	D C		HMASMCOM		;	HMASMIO	D (M	HMASMION	D C	HMASMTMD	DR
PTEST	HMASMTM3 HMASMCRD	С		HMASMTM4 HMASMTBL	RC	;	HMASMUPI HMASMTPR	R	•		_		
PTIME	HMASMASI HMASMMSG	R C		HMASMCOM HMASMUPI	RC	;	HMASMCPI HMASMZAP	RO		HMASMDC1	С	HMASMLKI	RC
PTIMES	HMASMASI HMASMUPI	D		HMASMCOM HMASMZAP	B		HMASMCPI	D		HMASMLKI	D	HMASMMSG	D
PTLIB	HMASMALC	D C		HMASMIO		M	HMASMTM2	DR		HMASMTM3	DR	HMASMTM4	D
PT00 PT01	HMASMDC1 HMASMDC1	B											
PT02 PT03	HMASMDC1 HMASMDC1	D											
PT04 PT05	HMASMDC1 HMASMDC1												
PWRK1	HMASMIO	•	M	HMASMION			HMASMTM2			HMASMUPI	DR C		
PWRK2 PWRK3	HMASMIO HMASMASI	DR	М	HMASMION HMASMIO	D C	; M	HMASMTM3 HMASMION	DR (HMASMUPI HMASMTM4			
PWRK4 PWRK5	HMASMIO HMASMCIL	DR	M	HMASMION HMASMDSU		;	HMASMIO		М				
SRTRC	HMASMLCC	DRW			•				• • •				
RTRC JRCE	HMASMLCC HMASMLID	DRWC											
JTBUF ACKED	HMASMLOG HMASMLOG	DR DR											
COMP	HMASML OG HMASML OG	DRW											
DATE	HMASMLOG	D											
DCBRG DD	HMASMAAR HMASMLOG	DR	М										
L LBDDSN	HMASMTBL HMASMCIL	DR R		HMASMTCL HMASMCPI			HMASMRCD	R		HMASMRJD	R	HMASMSPL	D
LEN	HMASMTMJ HMASMTBL	P DR		HMASMTCL									
LFMIOP	HMASMAAR	R		HMASMBUE	R		HMASMBUR	R		HMASMDRY	R	HMASMDS1	R
LFUNCT	HMASMLID HMASMAAR	RW		HMASMREC HMASMBUE	RW		HMASMSPL HMASMBUR	DW		HMASMTCL HMASMCIL	RW	HMASMXRF HMASMCPI	RW
	HMASMDRV HMASMREC	M		HMASMDS1 HMASMRJD	W		HMASMION HMASMSPL	_ ₩		HMASMLID HMASMTBL	W	HMASMRCD HMASMTCL	W
LGMIOP	HMASMTMJ HMASMAAR	ŖŨ		HMASMXPF HMASMBUE	RW		HMASMBUR	R		HMASMDS1	P	HMASMLID	R
	HMASMREC	Ř		HMASMSPL	D		HMASMTBL	R		HMASMXRF	Ř		-
LGOOD LIFIL	HMASMDS1 HMASMCIL	_M _C		HMASMSPL HMASMCPI	DW		HMASMSUB HMASMRCD	RW		HMASMRJD	W	HMASMSPL	D
LIPACK	HMASMSUB HMASMSPL	₽ D		HMASMTMJ	M								
LIPFX	HMASMCIL HMASMSUB	_ N		HMASMCPI HMASMTMJ	W		HMASMRCD	M		HMASMR JD	W	HMASMSPL	D
LISMD	HMASMCIL HMASMSUB	"W		HMASMCPI	ũ		HMASMRCD	W		HMASMRJD	W	HMASMSPL	D
LIUNPK	HMASMSPL	D		HMASMTMJ				_	•		_		_
LODSN	HMASMCIL HMASMSUB	₽ _W C		HMASMCPI HMASMTMJ	R C	;	HMASMRCD	R	M	HMASMRJD	R	HMASMSPL	D
L OPACK L OUNPK	HMASMSPL HMASMSPL	D											
LPACK	HMASMION	P DR		HMASMSPL HMASMRJD	D		HMASMTMJ	D					
LPDSN	HMASMRCD												

MBOL	MODULE	ACCES	S	MODU	LE	ACCE			USAGE MODULE	ACCESS	MODULE	ACCESS		MODULE	ACCES
L PMAD	HMASMDRV HMASMREC	W RW		HMASI	MRJD	RW			HMASMION HMASMSPL		HMASMLID HMASMSUB	C RW	P	HMASMRCD HMASMTBL	, W
LSPACE		D_ W		HMASI	MSUB	_ N			HMASMXRF	RW					
LUNPK Mask	HMASMION HMASMLOG	R DRW		HMASI	MSPL	D									
MM Temp	HMASMLOG HMASMLOG														
ŤŘ Y Y	HMASMCP2 HMASMLOG	D WC	P	HMASI	MTR1	D MC	١	P							
1 2	HMASMVLU	DR													
3	HMASMVLU	DR													
4 C	HMASMVLU	D		HMASI	MMPE	D WC		1	HMASMUC1	D WC					
CARRY1 CDCB	HMASMLCD HMASMIO	B													
CDEL	HMASMCOM HMASMIO	D.R.													
CENTRY	HMASMLID HMASMMPE	ĎR D	м	HMASI		DR DRWC	١		HMASMTM4 HMASMTM4		HMASMTRM	DR	P		
CHICTM	HMASMTMD	ĎR C								5 40					
CHMN	HMASMTMD	DR	_												
CHMP	HMASMTMD HMASMCP2	DRW	þ	HMASI	MTR1	DRW	(P							
CHSMOD	HMASMDLE HMASMTM4														
CK Ckey	HMASMDRV HMASMMFD	D	м	HMASI	MMPE	D	м								
CLPAR CMAC	HMASMMPE HMASMDLE	D DR			_										
CMACE CMACRC	HMASMDLE HMASMDLE	DR C	P												
CMOD	HMASMTMS	DR C			UTDM										
CMODA CMPTR	HMASMTMD HMASMTMD	DRW	_	HMASI											
CMP1 CMP2	HMASMTMD HMASMTMD	D C	P												
CNAME CP	HMASMTMD HMASMUC2		M	HMASI	MTRM	D MC									
CPERIO CRPAR	HMASMMPE HMASMMPE	D	M												
CRTN	HMASMIO HMASMDRV	D	M												
G D M Z C	HMASMTMD	D WC	11			D WC									
CSPTR CTYPE	HMASMTMD HMASMTM4	D WC		HMASI	רואור	DKM									
CUKEY	HMASMMPD HMASMTMS	DR C	М												
CVAL EAD	HMASMMPE HMASMEIS	D WC													
E L E L C H K	HMASMMPV HMASMREC	D W DRWC													
ELFND	HMASMTPR HMASMSER	P													
NUL OP	HMASMUC2 HMASMUC2	D	м												
TSL	HMASMTMD	DR	11												
U UPERIO		D	M												
UPKEY UPLPAR	HMASMMPE HMASMMPE	D	M												
UPRPAR UPVAL	HMASMMPE HMASMMPE	B	М												
VAL VAPTR	HMASMUC2 HMASMSER	DRW													
VBUILD VCKEYD	HMASMTPA HMASMTPA	DR	P												
VEND	HMASMTPA HMASMTPA	D WC													
VENTP VFLAGS	HMASMTPA HMASMTPA	D	P												
VGET VLISTX	HMASMTPA	D WC													
VRC	HMASMTPA HMASMTPA	DRWC													
VREC VSCL	HMASMTPA HMASMTPA	DRW	P												
VSKIP		DRW													
I Idel	HMASMMPE HMASMMPE	D MC													
IFND IKEY	HMASMMPE HMASMMPE	B	M												
ILPAR INUM	HMASMMPE HMASMUPI	D W	M												
IPTR IRPAR	HMASMAAR HMASMMPE	DRWC	м												
IVAL	HMASMMPE HMASMMPE	Ď	м												
I 2 K E Y	HMASMMFE	Ď	M												
I2RPAR I2VAL	HMASMMPE HMASMMPE	B	М												
MDPTR PAN	HMASMTMD HMASML OG														
TEOF TFLAGS	HMASMTPA HMASMTPA	D W													
TFOUND TNDX	HMASMTPA HMASMT P A	DRWC													
TNTFRC	HMASMTPA HMASMTPA	D WC													
TRC TREDO	HMASMTPA HMASMTPA	DRW	P												
TSMD	HMASMTPA HMASMTPA	DR C	6												
TSTAT TSVKLN	HMASMTPA HMASMDLE	DRW	,												
	MINASITULE	2 KWC													

				SYME	30 L	USAGE							
SYMBOL	MODULE	ACCESS	MODULE	ACCESS	-	MODULE	ACCESS	MODULE	ACCESS	_	MODULE	ACCESS	_
STAENOGO STAESVC STAFLG1 STAHIRC STAH STATEMNT STATINDX	HMASMCPL HMASMSTA HMASMSTA HMASMARI HMASMARI HMASMCIL HMASMEPT	DR D W DRWC DR DR DRW	HMASMSER	D	P								
STATLINE STATUS STATOO STATO1 STATO2	HMASMFPT HMASMAAR HMASMUPI HMASMAR1 HMASMAR1	D W F		D W	P	HMASMCOM	D P	HMASMCPI	D W	P	HMASMLKI	D W	F
STATO3 STATO4 STATO5 STATO6 STDFND STE	HMASMAR1 HMASMAR1 HMASMAR1 HMASMAR1 HMASMMPE HMASMDLE	DR C DR C DR C DR C DR WC											
STEND STEPNAME STIME STM STMT	HMASMDLE HMASMUPD HMASMLOG HMASMIO HMASMDLE	DRW	, HMASMUXC	R									
STMTBUF STMTCHK STMTCONT STMTTYPE STMT72 STNDDD	HMASMDLE HMASMDLE HMASMDLE HMASMDLE HMASMDLE HMASMIO	R C DR WC D WC											
STNDIDCB STNDODCB STOP	HMASMIO HMASMIO HMASMCPL HMASMLCD HMASMTMS	D D	HMASMCRD HMASMREC HMASMTPD	DRC		HMASMEIS HMASMTCR HMASMTPO	D WC	HMASMFPT HMASMTMD HMASMUC1	DRW DR DRWC		HMASMGTA HMASMTMJ HMASMUC4	D WC	
STOPFUNC	HMASMAAR HMASMCOM HMASMPCC HMASMPEC HMASMTBL HMASMTID HMASMTIO HMASMTPO HMASMUC2	C CCCC R RRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	HMASMALC HMASMCPI HMASMRIS HMASMRCD HMASMTCL HMASMTL1 HMASMTPA HMASMTPA HMASMUC3	C C CCCCC		HMASMARL HMASMCPL HMASMIDU HMASMSUP HMASMTCR HMASMTL2 HMASMTPM HMASMTPM HMASMUC4	R RRRRRR D D D	HMASMAR3 HMASMILE HMASMICI HMASMICI HMASMITOD HMASMITOD HMASMITOD HMASMITOD HMASMITOD HMASMITOD HMASMITOD	R C		HMASMBDL HMASMLOG HMASMLEG HMASMTEG HMASMTEC HMASMTPL HMASMUPL HMASMUPI	CCC CCCC	
STOPPTF	HMASMXRF HMASMADUEI HMASMCPI HMASMRDD HMASMRCF HMASMTMD HMASMTMJ HMASMTMJ HMASMTMJ HMASMTMJ HMASMTPD		HMASMALP HMASMBUR HMASMBUR HMASMCID HMASMRED HMASMTMS HMASMTMS HMASMTM4 HMASMUPI HMASMUPI	COCC COCCC		HMASMASIL HMASMOLEI HMASMLKIV HMASMTEJ HMASMTEJ HMASMTPC HMASMTPC HMASMUAP	COCCCCC RRRRRR RRR D D D	HMASMASM HMASMCMP HMASMDRV HMASMMPDC HMASMTBL HMASMTBL HMASMTM1 HMASMTM2 HMASMTM2 HMASMTM2	R RR RR R		HMASMBDL HMASMCOM HMASMDR2 HMASMRCD HMASMTCL HMASMTM HMASMTM2 HMASMTM2 HMASMTRM HMASMTRM	CC C CCCC	
STOPSCAN STOPSMD STOPSMP	HMASMMPE HMASMMPI HMASMTRM HMASMAAR	DR CC	HMASMTL1 HMASMTSB HMASMALC	R C		HMASMTPA HMASMASI	R C	HMASMTPL HMASMASM	R C		HMASMTPR HMASMBDL	C DR	
	HMASMBUE HMASMDSU HMASMSER HMASMUC2 HMASMVLU	R R C R	HMASMCMP HMASMDS1 HMASMSTA HMASMUC3 HMASMZAP	DR C R C		HMASMCOM HMASMLKD HMASMTMD HMASMUC4		HMASMCPI HMASMLKI HMASMTMS HMASMUPD	D R		HMASMDRV HMASMREC HMASMUC1 HMASMUPI	R C D C	
STOP2 STOW STOWCPRM STOWCRC STOWDRC STOWERR	HMASMEIS HMASMIO HMASMIO HMASMEIS HMASMEIS HMASMLKD	DR DR DRWC DRWC	,										
STOWLMD STOWLMOD STOWMAC STOWNIOP STOWNNAM STOWNPTR	HMASMLKD HMASMCPY HMASMTM2 HMASMEIS HMASMIO HMASMEIS	D WC DR DRWC DRW DRW DR											
STOWOIOP STOWONAM STOWOPTR STOWRC STOWRRC STOWRO	HMASMEIS HMASMIO HMASMEIS HMASMBUE HMASMEIS HMASMBUE	DRW DRW DRW DR											
STOWSRC STRING STRTINDX STRTRC	HMASMTM3 HMASMSCN HMASMDLE HMASMGTA	DR F											
STS STSDDCB STSDETN STSDETN STSENT STSIDCB STSODCB	HMASMDR1 HMASMIO HMASMIO HMASMIO HMASMIO HMASMIO	00000	HMASMIO	DR									
STSRTN STUPPTF STYPE1 STYPE2 STYPE2 STYPE3 SUBDESN SUBEFNO	HMASMIO HMASMIUCI HMASMBUE HMASMBUE HMASMBUE HMASMCPI HMASMREC	DRWC DRWC DRWC DRWC DR DRWC	•										
SUBFLGS SUBINDX SUBNINDX SUBNICNT	HMASMREC HMASMREC HMASMFVL HMASMBUE	D DRW DRWC								 .			-

STAENOGO - SUBNICHT

SYMBOL	MODULE	ACCES	:s	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
SUBNTSM# SUBRC	HMASMREC HMASMRCD	D W C	P								
SUBRTN	HMASMSUB	R	•								
SUBRTNCD SUBRTNS	HMASMSUB HMASMSUB	D	_	HMASMTSB	D						
SUBTYPE SUB1RC	HMASMREC HMASMRCD	D _R C	P								
SUMSYSM SUMSYSTY	HMASMRCD HMASMRCD	DR	MP								
SUP	HMASMMPV	D WC									
SUPADDR Supapac	HMASMTPD HMASMSUP	DR	P								
SUPBITS SUPBLDL	HMASMSUP HMASMBDL	D _R ₩	м								
SUPCHK	HMASMTPD HMASMTPR		•	HMASMTPR	DR						
SUPCHK rc Supck	HMASMTPA	DR									
SUPCNT Supcod e	HMASMTPD HMASMAAR	DR DR									
SUPCSMDX SUPCSUPX	HMASMTPR HMASMTPR	DRW									
CUPD	HMASMCP2	D		HMASMTCR	D	HMASMTR1	D				
UPDEL UPDELT	HMASMSUP HMASMDS1	DR									
UPDFLTP UPDFND	HMASMDS1 HMASMMPE										
SUPDIG	HMASMAAR	DRW.									
SUPDLEC	HMASMCPL HMASMCPL	D									
UPDLX	HMASMCPL HMASMTPA	D RWC									
UPFLAGS UPFND	HMASMTPA HMASMCPL	D WC									
UPFOUND	HMASMAR3	D WC									
SUPICEND SUPICT	HMASMTPA HMASMCP2	DR		HMASMTR1	DR						
UPINDX1	HMASMREC HMASMTPA	D W	P								
SUPNAME	HMASMBDL	DRW	•	HMASMCOM	D	HMASMCP2	D C P	HMASMTR1	D C F	•	
SUPNDX	HMASMBDL HMASMFPT			HMASMUC1		HMASMUC4	D				
UPPTR UPRC	HMASMCP2 HMASMTPA	DRWC	P	HMASMTR1	DRWC P						
UPRCDFT	HMASMDS1	DR									
SUPRES SUPRTNCD	HMASMSUP		_								
UPSCL Suptype	HMASMTPA HMASMTPA		P								
VAREAS	HMASMIO HMASMMSG	R									
VAREA1	HMASMMSG	DR									
SVBACK SVC	HMASMIO HMASMALC	DRW		HMASMMSG	DRW						
SVCLBFND SVCLIB	HMASMTL2 HMASMCOM										
VFWPD	HMASMIO	D W		HMASMMSG	D W						
VMAP VNXTPAG	HMASMMSG HMASMGTA	DRW									
VOPTNAM VOPTNM	HMASMUC2 HMASMUC2	DR DR	М								
VPTFDCB WITCH	HMASMIO HMASMLCC	D									
WITCHES	HMASMAR3	Ď		HMASMASM		HMASMCIL	DW	HMASMCPY HMASMMSG	B M	HMASMIDU HMASMSCN	
WITCHG1	HMASMIO HMASMUPI			HMASMLID	D W	HMASMLKD	U W	HMASHINSG	U	HIMSHISCH	
WITCH1 XXLIM	HMASMAAR HMASMLOG	3 3									
YMIKEY YMILPAR	HMASMMPE HMASMMPE	D	M								
YMIRPAR	HMASMMPE	D	M								
YM1VAL YNADAF	HMASMMPE HMASMIO	D R									
YNADRLS Yndisp	HMASMIO HMASMIO	D.R									
YNJOBN	HMASMIO	R									
YNMSG Yntaxmg	HMASMIO HMASMMPD			HMASMMPH	DR	HMASMMPI	DR	HMASMMPV			
YNTERR	HMASMASM HMASMMPE			HMASMCPY	DR	HMASMDRV	D	HMASMLKD	DR	HMASMUPD	D C
YS	HMASMEIS	D		HMASMLKD	D	HMASMUC1	D MC				
YSARRAY YSARRY1	HMASMIO HMASMLCP	D.R.	P								
YSCHK YSDEL	HMASMTM2 HMASMMPE	D	M	HMASMTM3	DR						
YSENT YSENTRY	HMASMDRV HMASMLID	DR									
YSGO	HMASMASM	D	M								
YSIN	HMASMDR1 HMASMASI	DW		HMASMCOM	D	HMASMCPI	D	HMASMUPD	D C	HMASMZAP	D
YSK YSLADDR	HMASMDRV HMASMLKD	DRWC			_						
YSLIB YSLIBS	HMASMAR2 HMASMTM1	DRWC		HMASMASI	D	HMASMMPE	D MC	HMASMZAP	DRW		
YSLIBSV	HMASMCPY HMASMAR2	DRWC									
YSLIB2 YSLIN	HMASMASM	D	M								
YSLMOD YSLRO10	HMASML KD HMASMC PY	DR	м								
YSLSW YSMCNT	HMASMLKD HMASMRCL	D WC									
YSMCPL	HMASMDLE	D W	P								
YSMD# YSMFMID	HMASMTCR HMASMTD1	D WC	Ρ,		_						
YSMFMKY YSMIN	HMASMTD1 HMASMTBL	DR		HMASMTP2	D						
YSMINIT	HMASMREC										
YSMKEYS	HMASMUC2	D	M								

SUBNTSM# - SYSMKEYS

YMBQL	MODULE	ACCES	2	MODULE	S ACCE		<u>L USAGE</u> Module	ACCESS		MODULE	ACCE	22	MODULE	ACCE
		ACCE 3	_						_					
YSMNAME YSMOD	HMASMCP2 HMASMCPI	DRW	P	HMASMREC HMASMLID	DR DR	P	HMASMTR1 HMASMTEC		P	HMASMTPC	DRW	мр	HMASMTP2	D W
YSMOD# YSMODØ	HMASMTD1 HMASMTD1	D _R W	P	HMASMTP2	D									
YSMODID	HMASMRCL HMASMMPV	D WC												
YSMODNO YSMODRC	HMASMR JD HMASMD L E	D R WC	P											
YSMODT YSMOD8	HMASMTD1 HMASMTEC	D W	·	HMASMTP2 HMASMTPC										
YSMREST YSMSAV		DRW	м		-									
YSMSCAN	HMASMREC HMASMMSG	DR												
YSMSGNO YSMVS	HMASMSTA	D WC												
YSNMFND YSODCB	HMASMMPE HMASMIO	D	M 											
YSOPTS YSOS_	HMASMUC2 HMASMTL2	D	M											
YSOUT	HMASMCIL HMASMTBL		M M	HMASMRCD HMASMTDD		M	HMASMRCF HMASMTPA	M M		HMASMTAD HMASMTPC		M	HMASMTAI HMASMTPL	
YSPDEAD	HMASMTPR HMASMIO	D WC	M	HMASMTRM		M	HMASMTSB	М		HMASMUC2		М		
YSPK YSPLIN e	HMASMASM HMASMLCP	D	М											
YSPRINT	HMASMASI HMASMIO	D W	м	HMASMCIL HMASMLKI	D W W		HMASMCOM HMASMUPI			HMASMCPI HMASMZAP	D W		HMASMDS1	DR
YSPTENT YSPUNCH	HMASMIO HMASMASI	D	• •	HMASMCOM			HMASMDLE							
YSPURGE YSRC	HMASMPGC HMASMDR1	DR C	P		•									
YSRTN	HMASMIO	DR												
SRTN#	HMASMDRV	D	M											
SSVS	HMASMTL2 HMASMION	DR		HMASMLID	DR									
(STEND (STLIB	HMASMLKD HMASMLKD	DRWC												
YSTSW YSTYPE	HMASMLKD HMASMUC1	D												
SUT1	HMASMASI HMASMASI	B		HMASMIO		M	HMASMUPI	DR						
SUT3	HMASMASI HMASMCPI	B		HMASMCPI	D									
SVSI SIKEY	HMASMBD L HMASMMPE	D C	м	HMASMSTA	D MC									
SILPAR	HMASMMPE HMASMMPE	Ď	••											
SIRPAR SIVAL	HMASMMPE	D												
SZKEY SZLPAR	HMASMMPE HMASMMPE	D	M											
SZRPAR SZVAL	HMASMMPE HMASMMPE													
YU1KEY YU1LPAR	HMASMMPE HMASMMPE	D	M											
YU1RPAR YU1VAL	HMASMMPE HMASMMPE	B												
YYDEC Yylim	HMASML OG HMASML OG	D C												
BCORE	HMASMIO HMASMTBL	R	M	HMASMTM1	DRWC		HMASMTM2	DRW		HMASMTM3	DRW		HMASMTPD	DRW
BCOR2	HMASMTBL HMASMTBL		M											
BMAX2	HMASMTBL HMASMTBL	ĎW												
BMIN2	HMASMTBL HMASMTAD	D												
AIFRST AIRC	HMASMTP2 HMASMTAI	DW												
LFND	HMASMMPE	D	M											
LKEY	HMASMMPE	D	M											
LUMEND	HMASMMPE HMASMMPE	D												
LRPAR	HMASMMPE HMASMMPE	Ď	M											
LZLPAR	HMASMMPE HMASMMPE	D	M								••			
LZRPAR LZVAL	HMASMMPE HMASMMPE	D	M M											
PEASEQ	HMASMRCD HMASMRCD	D	M M				•							
APERELF Apesrel	HMASMRCD HMASMRCD	D							•					
RGET	HMASMRCD HMASMCIL		м	HMASMPMG	R C		HMASMRCD	м		HMASMRCF		м	HMASMTAD	
,	HMASMTAI HMASMTPL		M M	HMASMTBL HMASMTPR		M	HMASMTDD HMASMTRM	M		HMASMTPA HMASMTSB		M	HMASMTPC HMASMUC2	
RGETDD	HMASMDLE HMASMIO	DRWC	P											
FRSIZ	HMASMIO HMASMAAR	D WC	м	HMASMDRV		м	HMASMDR1	м		HMASMDR2		м	HMASMPRM	С
SLACDS	HMASMREJ HMASMDRV		M	HMASMDR1	c			71						
LACRQ SLAPAR	HMASMDRV HMASMDRV	8 3 3		HMASMDR1 HMASMTPL	00									
LASSEM	HMASMDRV	W		HMASMTMS	č									
LBPFM	HMASMDRV	3		HMASMIDU	C		HMASMTMS	c		HMASMTRM	c			
BLBPPRE	HMASMDRV HMASMDRV	W W		HMASMTR1 HMASMTR1	С									
BPREQ	HMASMDRV HMASMDRV	W _C		HMASMTR1 HMASMDR1	oooo		UM / 505	_		UM 4 BM = 1 - 1	-			
BLCHECK BLCRQ	HMASMDRV HMASMDRV	WC WC		HMASMDR1 HMASMDR1			HMASMTMD	C		HMASMTMJ	С			
BLDISN	HMASMDRV	MC		HMASMDR1 HMASMDR1	C									

SYSMNAME - TBLDISR

					SY	мво	L USAGE						
SYMBOL	MODULE	ACCES	s	MODULE	ACCES	s 	MODULE	ACCESS	_	MODULE	ACCESS	MODULE	ACCESS
TBLDISW TBLDRC TBLDSID TBLENTRY	HMASMDRV HMASMAR1 HMASMTBL HMASMTAD	DRWC R W		HMASMDR1 HMASMAR2	DRW								
TBLERR TBLEXC TBLEXCER TBLFLG3	HMASMLKD HMASMASM HMASMUPD HMASMDRV	DR DR		HMASMDRV	WC		HMASMLKD	D C		HMASMREJ	С	HMASMTPL	С
TBLFLUSH TBLGROUP TBLJCLGT TBLMASS	HMASMDRV HMASMDRV HMASMDRV HMASMDRV	M M M M		HMASMTPA HMASMTMJ HMASMPEJ	RCC		HMASMTPD	С		HMASMTPL	С	HMASMTPR	С
TBLNOAPP TBLNOJCL	HMASMDRV HMASMAAR HMASMTM1 HMASMDRV	300		HMASMDR1 HMASMCPL HMASMTM2 HMASMTMJ	oooo		HMASMDRV HMASMTM3	w _C		HMASMDR1 HMASMTPL	C	HMASMTBL	С
TBLNUCID TBLOFLOW TBLP TBLPARM	HMASMDRV HMASMLKD HMASMPRM HMASMAAR HMASMSER		P P	HMASMP06 HMASMDRV	RWC RW	P	HMASMDR1		P	HMASMDR2	P	HMASMREJ	,
TBLPTS TBLRTNCD TBLSCDS	HMASMDRV HMASMTBL HMASMDRV	DRWC	•	HMASMDR1 HMASMDR1	c								
TBLSEL TBLSETUP TBLSTS TBLTSL TBLTSS	HMASMDRV HMASMTBL HMASMDRV HMASMTBL HMASMTBL			HMASMREJ HMASMDR1	C		HMASMTPA	С		HMASMTPL	С		
TBLUSER TBLX	HMASMIBL HMASMCPL HMASMTBL HMASMTD1 HMASMTL3 HMASMTPD HMASMTPD HMASMTRM	₩ !	EEEEEE	HMASMTPL HMASMIDU HMASMTBM HMASMTEC HMASMTMD HMASMTPL HMASMTPL		222222	HMASMPRM HMASMTCL HMASMTID HMASMTMJ HMASMTPO HMASMTPO HMASMTSB	C MMMMM		HMASMTAD HMASMTCR HMASMTL1 HMASMTMS HMASMTPA HMASMTPR	M M M M M M M M M M M M M M M M M M M	HMASMTAI HMASMTDD HMASMTL2 HMASMTM1 HMASMTPC HMASMTP2	M M M M M M
TBLXASGT TBLXCDSI	HMASMTBL HMASMTBL HMASMTM3	W W R		HMASMTCL HMASMTCR HMASMTM4	R C R R		HMASMTMJ HMASMTD1	R		HMASMTMD	R	HMASMTM2	R
TBLXCRQI TBLXCUR TBLXDLGT TBLXD2GT TBLXEND TBLXFUNC	HMASMTBL HMASMTCL HMASMTBL HMASMTBL HMASMTBL HMASMTPR		м	HMASMTP 2 HMASMTB L HMASMTP R HMASMTP R HMASMTC R HMASMTC R HMASMTR M		м	HMASMTBM HMASMTRM HMASMTBM HMASMTMD HMASMTSB	W R R R R		HMASMTPA	м	HMASMTPL	м
TBLXFUND TBLXHDR TBLXIBGN TBLXIFGT TBLXINDX	HMASMTBL HMASMTBL HMASMTBL HMASMTBL HMASMTBL	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		HMASMTPA HMASMTBM HMASMTPC HMASMTCL	W R R	M	HMASMTPL HMASMTCL HMASMTP2	R C					
TBLXIOPF	HMASMTBL HMASMTRM	Ϋ́Ψ R	P	HMASMTL 2	Ř		HMASMTPA	R		HMASMTPL	R	HMASMTPR	R
TBLXIOP2	HMASMTBL HMASMTM3 HMASMTBL	RW RW	·	HMASMTCL HMASMTM4 HMASMTCL	RRRR		HMASMTD1 HMASMTPA HMASMTMD HMASMTL1	R R	P	HMASMTMD HMASMTPD HMASMTMJ HMASMTM1	R R R	HMASMTM2 HMASMTRM	R R
TBLXLMGT TBLXLRC TBLXNULL	HMASMTBL HMASMTBL HMASMTAD HMASMTCR HMASMTMS	33 22 22		HMASMTCL HMASMTAI HMASMTD1 HMASMTM1	R C R R		HMASMTBL HMASMTEC HMASMTM2	RW R C		HMASMTBM HMASMTID HMASMTM3	R R R	HMASMTCL HMASMTMD HMASMTP2	R R R C
TBLXOPTS TBLXPARM	HMASMTRM HMASMCPL HMASMTCD HMASMTLI HMASMTMS HMASMTPA	R R	P P P P	HMASMIDU HMASMTAI HMASMTDD HMASMTL2 HMASMTM1 HMASMTPC	R	2000	HMASMTBL HMASMTD1, HMASMTL3 HMASMTM2 HMASMTPD	RW RW	P P P P P	HMASMTBM HMASMTEC HMASMTMD HMASMTM3 HMASMTPL	P P P	HMASMTCL HMASMTID HMASMTMJ HMASMTM4 HMASMTPO	
TBLXSCGT TBLXSEGT TBLXSREL	HMASMTPR HMASMTBL HMASMTBL HMASMTBL	333	P	HMASMTP2 HMASMTCL HMASMTPA HMASMTPL	R C C	P	HMASMTRM HMASMTPA HMASMTPL	R R	P	HMASMTRI HMASMTPL HMASMTPR	R R	HMASMTSB	R
TBLXSTRT TBLXTBL TBLXTCRC TBLXTCP	HMASMTAD HMASMTBL HMASMTCR HMASMTAD	C WWW		HMASMTAI	RWC		HMASMTBL	RW W		HMASMTBM	RW RW	HMASMTCL HMASMTD1	R R
BLXTRC	HMASMTL1 HMASMTPR HMASMTBL	R R W		HMASMTMD HMASMTRM HMASMTCL	R R C		HMASMTM4	R		HMASMTPA	R	HMASMTPC	Ř
TBLXTSLP TCBSYSTM TCBTIO	HMASMTBL HMASMTRM HMASMALC HMASMALC	W R R R		HMASMTPA	R		HMASMTPL	R		HMASMTPR	R	HMASMTP2	R
CLMOPUP CLRTNCD DELSW D110Pa D1PDCHN	HMASMTCL HMASMTCL HMASMCOM HMASMTD1 HMASMTD1	DR WC	P										
ECFLAGS ECRC EMP EMPDATE EMPPTR EMPPTR1 EMPPTR2	HMASMTEC HMASMTEC HMASMUC1 HMASMUC1 HMASMURD HMASMLKD HMASMLKD	DRW DRW DRW											
TEMPRTN TEMPTTR TEMP1PTF TERMMSG TERMRC	HMASMTR1 HMASMIO HMASMCPL HMASMUPD HMASMTPA	C G G G G G G G G G G G G G G G G G G G	P										
TERMTPA TEST TESTIND TEXLKEY TEXLLPAR TEXLRPAR	HMASMTPA HMASMSCN HMASMTMD HMASMMPE HMASMMPE HMASMMPE	MWC .	м Р										

TBLDISW - TEXLEPAR

DEDEFINITION, REREAD, WEWRITE, CECOMPARE, EEEQUATE OPERAND, MEMACRO, AEABSOLUTE, PEPARAMETER

					SYMBO	LUSAGE					
SYMBOL	MODULE	ACCES		MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
TEXLVAL	HMASMMPE										
TEXTPROC TGNAME THIRTY2	HMASMREC HMASMZAP HMASMAAR	DR D		HMASMLKI	D						
THISDSN Thisvol	HMASMALC HMASMALC	DRW	M								
THMA2001 THMA2011 THMA2021	HMASMDC1 HMASMDC1 HMASMDC1	D									
THMA2031 THMA2041	HMASMDC1 HMASMDC1										
THMA2051 THMA2061	HMASMDC1 HMASMDC1	000									
THMA2071 THMA2081 THMA2091	HMASMDC1 HMASMDC1 HMASMDC1	Ď									
THMA417I THMA418I	HMASMDC1 HMASMDC1	B									
THMA4191 THMA4201 THMA4211	HMASMDC1 HMASMDC1 HMASMDC1	D									
THMA4221 THMA4231	HMASMDC1 HMASMDC1	B									
THMA424I THMA425I THMA426I	HMASMDC1 HMASMDC1 HMASMDC1	D D									
THMA4271 THMA4281	HMASMDC1 HMASMDC1	D									
THMA429I THMA430I	HMASMDC1 HMASMDC1										
THMA431I THMA432I THMA433I	HMASMDC1 HMASMDC1 HMASMDC1										
THMA434I THMA435I	HMASMDC1 HMASMDC1	D									
THMA436I THMA437I THMA438I	HMASMDC1 HMASMDC1 HMASMDC1	D D									
THMA439I THMA440I	HMASMDC1 HMASMDC1	D									
THMA4411 THMA4421 THMA4431	HMASMDC1 HMASMDC1 HMASMDC1	D									
THMA444I THMA445I	HMASMDC1 HMASMDC1	D									
THMA446I THMA447I THMA448I	HMASMDC1 HMASMDC1 HMASMDC1										
THMA4491 THMA4501	HMASMDC1 HMASMDC1	D									
THREE Threeo Tidelem	HMASMAR4 HMASMSUB HMASMTID	DR C									
TIDELEOF TIDI1	HMASMTID HMASMTID	DR DRW									
TIDPTFNM TIDRTNCD TIDTYP	HMASMTID HMASMTID HMASMTID	DRWC				**					
TIDVLSTP TIOX	HMASMTID HMASMTID	DRW DRW		HW 4 6 W 6 D 1	_	WWA 2W2 20		MMAGMOGI		HMASMFPT	. в. ы
TIME Timearea	HMASMBUE HMASMIO HMASMIO	R R DR		HMASMCPL		HMASMCRD	•	HMASMDSU	•	писынге	0
TIMEHDR TIMEHH	HMASMMSG HMASMIO	DR DR									
TIMEMM TIMETEMP TIMETT	HMASMIO HMASMBUE HMASMIO	DR DRW DR		HMASMCPL	DRM	HMASMCRD	DRM	HMASMOSU	DRW	HMASMIO	DRW
TIMEWORK TIMINGMS	HMASMFPT HMASMMSG	DR C			,			٠.			
TIOEDDNM TIOEFSRT TIOELNGH	HMASMALC HMASMALC HMASMALC	R									
TIOTPTR TIOT1	HMASMALC HMASMALC	R	_								
TITLE TLB TLIBCHK	HMASMARL HMASMDR1 HMASMCPI	DR	þ								
TLIBCPY TLIBDSS#	HMASMCIL HMASMRCD	DR DRW			,			,			
TLIBFND TLIBOK TL1FLGS	HMASMMPE HMASMCPI HMASMTL1	D MC	M		•						
TL1RTNCD TL2FLGS	HMASMTL1 HMASMTL2	DRWC D					•				
TL2RTNCD TMDFLGS TMJAPPLY	HMASMTL2 DMTMSAMH LMTMASMTMJ	D W				٠					
TMJFJCL TMJNXSMD	HMASMTMJ HMASMTMJ	DR DR									
TMJREST TMJRTNCD TMJSTUPD	HMASMTMJ HMASMTMJ HMASMTMJ	DRWC DR			,						
TMJSW TMJX TMPCPTR1	HMASMTMJ HMASMTMJ HMASMIO	D	P								
TMPFMID TMPID	HMASMUC3 HMASMCPL	D WC									
TMPINDX TMPRTNCD TMPTYPE	HMASMEIS HMASMUC3 HMASMCPL	DRWC									
TMPVER TMSFLGS	HMASMFPT HMASMTMS	DRW									
TMSGĀLSTD TMWFLGS	HMASMMSG HMASMTMW	D ^R W									
TMWMODE	HMASMTMD	_D_₩		HMASMTMW			BAND Mar	MACRO, A=A	Ben 1177	D=DABAM#=	
DEDEFINIT	TON' KEKE	AU, M:	- 64 1	IE, CECOM		TVAIL OF	HARVI MEI			FOFARAMET	- H

SYMBOL	MODULE	ACCESS		MODULE	ACCESS		MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
N	HMASSMITH A 44 HMASSMITH H	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P	HMASMTMM HMASMTM3	DRW	P						
TOPLINE TORCD TORECFND	HMASMLOG HMASMGTA HMASMGTA	R D W D		UM 4 8 MI 16 T	D. NO							
TOTAL DEL TPAFLA TPAFLA TPARTILLO TP	HMASMUCI HMASMTPA HMASMTCI HMASMDCI HMASMDCI HMASMDCI HMASMDCI HMASMDCI HMASMDCI HMASMDCI HMASMDCI HMASMDCI HMASMDCI HMASMDCI HMASMDCI HMASMDCI HMASMDCI HMASMDCI HMASMDCI	0 . U		HMASMUC3	D WC							
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T A AS TO A AS	HERE REPORTS OF THE PROPERTY O	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		HMASMTMS HMASMSER		P	HMASMSUB	R				
TRIRETRN TR2 TSBIOPF TSBRTN TSBRTNCD D=DEFINIT	HMASMTCR HMASMALC HMASMTSB HMASMTSB HMASMTSB	D R		HMASMTR1		•	QUATE OPE	RAND, Mai	MACRO, A=A	BSOLUTE,	P=PARAMET	ER

TMWOPT - TSBRTNCE

				SYMBO	L USAGE					
SYMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
TSL	HMASMCPL HMASMTPA HMASMTSB	M M M	HMASMPRM HMASMTPL		HMASMTBL HMASMTPR	M M	HMASMTD1 HMASMTP2	M M	HMASMTMD HMASMTRM	M M
TSLEBGNP TSLEFNDP	HMASMTPA HMASMTPA	W	HMASMTPL HMASMTPL		HMASMTSB HMASMTSB	R RW				
TSLENMEP TSLENTSR	HMASMTSB HMASMTPA	C	HMASMTPL							
TSLEONXT TSLETYPE	HMASMTPA HMASMTPA	W	HMASMTSB HMASMTPL	C	HMASMTSB	С				
TSLEVER# TSLFCLRP	HMASMTPA HMASMCPL	R	HMASMTP L HMASMTP A	. W	HMASMTSB HMASMTRM	R C				
TSLFENSR TSLFFUNC	HMASMTPA HMASMTRM		HMASMTPL HMASMTSE	R						
TSLFICSR TSLFISRH	HMASMTPA HMASMTMD	R	HMASMTP2 HMASMTPA		HMASMTRM HMASMTPR	R	HMASMTP2	R	HMASMTRM	R
TSLFLSRH	HMASMTSB HMASMTPA	R	HMASMTPR		HMASMTSB	R C				
TSLFOUND TSLFRCKR TSLFPELM	HMASMTPA HMASMTPR HMASMTRM	R	HMASMTPR HMASMTRM HMASMTSE	R	HMASHISB	R C				
TSLFUNCT	HMASMCPL HMASMTP2	W	HMASMTMD	W	HMASMTPA HMASMTSB	M	HMASMTPL	W	HMASMTPR	W
TSLGDSID TSLGIOPP	HMASMTSB HMASMTSB	R	P HINASITI KI	•	HILASITISE	•				
TSLGOMSG TSLGOOD	HMASMTSB HMASMTPR	С	HMASMTRM	1 C	HMASMTSB	R C				
TSLGOXTD TSLGSMD	HMASMTSB HMASMTSB	С				•				
TSLICTF TSLICTP	HMASMTSB HMASMTMD	RW	HMASMTPA	RCM	HMASMTPR	R C	HMASMTSB	RW		
TSLICTSR	HMASMCPL HMASMTRM	×	HMASMTMD HMASMTSE		HMASMTPA	M	HMASMTPR	W	HMASMTP2	DRW
TSLIDEL TSLIDLE	HMASMTSB HMASMTSB	W								
TSLIDLI TSLIFND	HMASMTSB HMASMTPA	С	HMASMTPR	С	HMASMTSB	MC				
TSLINOG TSLIOK	HMASMTSB HMASMTMD	С	HMASMTPA		HMASMTP2	С	HMASMTSB	WC		
TSLIONXT TSLISMD	HMASMTMD HMASMTMD		HMASMTSE HMASMTP#		HMASMTPR	W	HMASMTP2	W	HMASMTRM	W
TSLISUP	HMASMTSB HMASMTPA HMASMTPA	С	HMASMTSE HMASMTPR	WC W	HMASMTSB	R C				
TSLLOFST TSLLONXT TSLLRTNP	HMASMTPR HMASMTPA	W	HMASMTSE HMASMTPR	C	HMASMTSB	RW				
TSLLSMD TSLLSTSR	HMASMTPA HMASMTPA	W	HMASMTPE	W	HMASMTSB	~ ~ c				
TSLMFUNC TSLMSMD	HMASMTRM HMASMTRM	W	HMASMTSE							
TSLMTYPE TSLNTFND	HMASMTRM HMASMTPA	W	HMASMTSE	WC .	HMASMTRM	С	HMASMTSB	R		
TSLPARMS	HMASMCPL HMASMTPR		P HMASMTBL P HMASMTP2	DRW	HMASMTMD	DRW I	P HMASMTPA P HMASMTSB	DR P		R P
TSLPMLAD TSLRAPTR	HMASMCPL HMASMTRM	W	HMASMTB L HMASMTSE	RW P	HMASMTMD	W	HMASMTPA	W	HMASMTP2	W
TSLRELM TSLRETRN	HMASMTRM HMASMTPA	RC	HMASMTSE HMASMTPE	RC	HMASMTP2	R C	HMASMTRM	R C	HMASMTSB	RWC
TSLRRTNP TSLRSMD	HMASMTRM HMASMTRM	W	P HMASMTSE HMASMTSE	RW						
TSLSCDEL TSLSCDSF TSLSCERR	HMASMTPA HMASMTSB HMASMTRM	W	HMASMTSE HMASMTSE							
TSLSCFND TSLSCOK	HMASMTPA HMASMTPA	С	HMASMTSE HMASMTP2	, M	HMASMTRM	С	HMASMTSB	W		
TSUSCEUR	HMASMTPA HMASMTPA	С	HMASMTSE HMASMTP2	W	HMASMTRM	W		-		
TSLSICDS TSLSICTF TSLSICTP	HMASMTSB HMASMTSB	W								
TSUSIDEL TSUSIDLE	HMASMTP2 HMASMTP2	č								
TSLSIDLI TSLSIFND	HMASMTP2 HMASMTRM	С	HMASMTSE							
TSLSIOK TSLSIOPP	HMASMTPA HMASMTPA	W	HMASMTP2 HMASMTSE							
TSLSISLS TSLSISUP	HMASMTSB HMASMTPA HMASMTSB	С	HMASMTRM	1 C	HMASMTSB	W				
TSLSOALL TSLSOCDS TSLSOICT	HMASMTPA HMASMTPA	W	HMASMTP2 HMASMTP2		HMASMTRM HMASMTRM		HMASMTSB HMASMTSB	c		
TSLSOPTF TSLSSMD	HMASMTPA HMASMTPA	W	HMASMTP		HMASMTRM			•		
TSLTBLXP	HMASMCPL HMASMTSB	W	HMASMTBL	. W	HMASMTMD		HMASMTPA	M	HMASMTP2	W
TSTDAT TT_	HMASMDSU HMASMIO	D W	HMASMTME	DRW	HMASMTMS	DRW	HMASMTRM	DRW		
TTR TTRREQ	HMASMRIO HMASMRIO	D C								
TTRSV TWELVE	HMASMIO HMASMSER HMASMAR3	DRW D	HMASMAR4	DB C .						
TWO TWOBLANK TWOCHARO	HMASMMSG HMASMDRV	D C	HINASIIAKS	J. C .						
TWONAME TWOPLUS	HMASMZAP HMASMASM	D WC	HMASMLKE	D C						
TWOSLASH TWOO	HMASMASM HMASMSUB	D C	HMASMCPY	D C	HMASMLKD	D C				
TXLFND	HMASMMPE HMASMMPE	D WC								
TXLKEY	HMASMMPE	DR	HMASMFPT	DR	HMASMFXF	DR	HMASMTCL	DR	HMASMTL1	D
TXTACCED TXTACCED TXTACCST	HMASMUC1 HMASMTBL HMASMUC1	DR	HMASMTPE	ם						
TXTACOS	HMASMORV HMASMLID	DR	HMASMDR	DR	HMASMDS1	DR	HMASMFPT	DR	HMASMLCD	DR
TXTACRQ TXTADD	HMASMDR2 HMASMLCD	DR	HMASMLIC	DR						
D=DEFINIT	ION, R=RE	AD, W=WF	ITE, C=CON	IPARE, E=E	QUATE OPE	RAND, M=	MACRO, A=A	BSOLUTE,	PEPARAMET	ER

TSL - TXTADD

YMBOL	MODULE	AC	CES	s	MODULE	ACCI		MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
V7.18.18					UMAGNEVE								
XTAPAR XTAPF	HMASMEPT HMASMLCD	D		P	HMASMFXF			HMASMUC1					
XTAPPDT	HMASMDRV HMASMUC1			Р	HMASMFPT	DR		HMASMFXF	DR	HMASMTCL	DR	HMASMTL1	D
XTAPPED XTAPPST	HMASMTBL HMASMUC1	DR		P									
XTASM	HMASMASI	DR		-	HMASMFXF	DR		HMASMLCP	D	P			
XTASMHD	HMASMLCD HMASMLCD												
XTASSEM XTBLANK	HMASMSEC HMASMTSB	DR		1									
XTBYP	HMASMFPT	DR			HMASMEXE								
XTCDS	HMASMDRV HMASMLID	DR			HMASMDR2 HMASMTL1	D		HMASMDS1 HMASMTL2		HMASMFPT	DR	HMASMLCD	DR
XTCDSID XTCLOSE	HMASMLCD HMASMDRV				HMASMUC1 HMASMIO		,	•					
XTCNV	HMASMDRV	D											
KTCOLON KTCOM	HMASMF PT HMASML CP	D		P									
KTCOPY KTCPY	HMASMLCD HMASMLCP	D		P									
KTCPQ	HMASMDR2	DR			HMASMLID	DR							
KTDASH KTDC	HMASML CD HMASML CD			P									
KTDEL KTDEL b y	HMASMEIS HMASMFPT	DR	С		HMASMFPT HMASMUC1		,	HMASMLCD	DR				
KTDELTD	HMASMUCI	DR				-							
KTDIR KTDIST	HMASML CP HMASML CD	DR			HMASMUC1	DR	,	•					
CTDLBHD CTDSID	HMASMLCD HMASMLID												
TDSIDA	HMASMTSB	D	١,	1	HWY 641 62								
TDSSPC	HMASMFPT HMASMLCP	DR			HMASMLCP	U #							
TELEM	HMASMFPT HMASMMPE	DR DR											
TENT	HMASMUC2 HMASMEPT	DR	4 1	1	HMASMFVL	D.D.		UMACMEVE		HMA CMI CD		UMAGMIGD	~ ~
TERR	HMASMFPT	DR			HMASMFXF	DR		HMASMFXF		HMASMLCD	_	HMASMLCP	
KTFAIL	HMASMASI HMASMZAP				HMASMCOM	DR		HMASMCPI	DR	HMASMLKI	DR	LMTMSAMH	DR
TFMID	HMASMF PT HMASMUC 3	DR			HMASMLCD	DR		HMASMTRM	D	P HMASMTSB	DR	HMASMUC1	DR
TFUNC	HMASMFPT	DR			HMASMUC1	DR							
TFUNCT THIGH	HMASMFXF HMASMDS1												
TIBUFR	HMASMIO HMASMTL2	R	_										
TIFREQ	HMASMTSB	DR	С										
(TIRQ (TJCL	HMASMMPI HMASMDRV	DR DR			HMASMEPT	DR							
CTJCLIN CTKWRDA	HMASMBUE HMASMTPL	D	C		HMASMDRV	DR		HMASMUPD	DR				
TLEATE	HMASMLCD	DR	,	'									
KTLIB KTLIST	HMASMLCD HMASMDRV	DR DR			HMASMUC 2	D W	M						
KTLKD KTLKD in	HMASMLCP HMASMLCD	D DR		P									
KTLMD	HMASMTL2	DR DR											
KTLMDHD KTLOG	HMASMLCD HMASMCRD	D	С		HMASMDRV	DR							
(TLOW (TLRECL	HMASMDS1 HMASMIO	DR DR											
TLRF	HMASMUPD HMASMFPT				HMASMIICI	D.B.	P						
TLUPD	HMASMLCD	DR			HMASMUC1		•						
TMACHD	HMASMFXF HMASMLCD	DR DR			HMASMMPE	DR							
TMACU	HMASMFXF HMASMSEC	DR											
TMCS	HMASMTPC	D	M	ı									
TMCSHD	HMASMLCP HMASMLCP	DR D											
TMCU TMOD	HMASMSEC HMASMFXF				HMASMMPE	n e		HMASMSEC	n e	HMASMTL1	n		
TMODHD	HMASMLCD	DR				U .		111111111111111111111111111111111111111	U.K	AMASMICI	•		
TMREQ TMTSSV	HMASMCOM HMASMLCD	DR											
TNAME	HMASMLCP HMASMLCD	DR D		P									
TNO'	HMASMEPT	Ď		•	HMASMLCD	DR		HMASMLCP	DR				
TNONAM TNOSUP	HMASMUPD HMASMDRV	DR											
TNPRE TNUC	HMASMUC1 HMASMTDD		С	P									
TNUCID	HMASMLCD HMASMTL 2	DR	c		HMASMUC1	DR	P						
TNULL	HMASMLCD	DR	C		HMASMLCP								
TOPEN TOPT	HMASMBD L HMASMLCD				HMASMIO HMASMLCP	DR DR		HMASMUC2	D W M				
TOVLY TPAGA		D		P									
TPAGEN TPARM	HMASMLCP												
TPEMAX	HMASMLCD	DR			HMASMLCP	DR		HMASMUC1	DR				
TPER TPRE		DR DR											
TPRENG TPRIM	HMASMTSB HMASMLCP	DR											
TPRMLB	HMASMTL 2	DR				_							
TPTF	HMASMASI HMASMUPI	DR			HMASMCOM			HMASMFPT		HMASMFXF		HMASMUC1	
TPTS	HMASMDS1 HMASMTPA	DR			HMASMEPT HMASMEPC		м	HMASMLID	DR	HMASMTDD	D C	HMASMTL 2	D
TPURGE	HMASMLCP	DR				-							
	HMASMLCP	DR			HMASMEPT	DR		HMASMTCL	DR				
TRC TREC	HMASMLCP HMASMDRV	DR			HMASMFPT	DR		HMASMTCL	DR				

TXTAPAR - TXTREC

MBOL	MODULE	ACCESS	MODULE			MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
TRECDT	HMASMUC1		P P								
TREFR Trej Trent Trep	HMASMLCD HMASMDRV HMASMLCD HMASMZAP	D R D	HMASML	CP DR		HMASMTCL	DR				
TREQ TRES TRESDT	HMASMTSB HMASMFPT HMASMUC1	DR DR	HMASMU HMASMF			HMASMTCL	DR	HMASMTL1	D		
RESET	HMASMDRV HMASMLCD HMASMFPT	D R D	P HMASMF	YF DP							
RMACU RMACU RMID		DR DR	HMASMT		,	HMASMUC1	DP				
RMOD RSRCU RSRCU RST RSTED RSZAP	HMASMFXF HMASMFXF HMASMFXF HMASMDRV HMASMTBL HMASMFXF	R R R R R R	,a	5							
RXZAP SCDHD SCDS SCR	HMASMFXF HMASMFPT HMASMFPT HMASMSEC	DR DR	HMASML	CD DR		HMASMLID	DR				
SCTR SCU SEC	HMASMLCD HMASMSEC HMASMLCP	D DR	P								
SMD SMDBY SMDMP	HMASMDRV HMASMFXF HMASMFXF	DR DR DR	HMASMT	PA D		HMASMTPR	D	HMASMUC3	DR		
SMDTP SMP SRC	HMASMUC1 HMASMDRV HMASMFXF	DR DR	HMASMU HMASMM	XC DR							
SRCHD SRCU SPEL SRU	HMASMLCD HMASMFXF HMASMLCD HMASMMPE	DR DR	HMASMU	C1 DR	P						
STAT STD STS	HMASMFPT HMASMLCD HMASMTL1	D R D	P HMASMU	C1 D	P						
STSSV SUBNT SUCC	HMASMLCD HMASMBUE HMASMASI	DR DR DR	HMASMU		P	HMASMCPI	DR	HMASMLKI	DR	HMASMTMJ	DR
SUPED	HMASMZAP HMASMDRV HMASMTSB	DR DR	HMASMF HMASMU	PT DR C1 DR		HMASMLCP	D	P HMASMSUP	DR		
SUPNG SVCLB SYSHD SYSL SYSL	HMASMTSB HMASMTL2 HMASMLCD HMASMLCD HMASMUC1	D C DR DR	HMASML P	CP DR							
SYSMD SYSPN SYSPT	HMASMUXC HMASMTDD HMASMLCP	DR D C	HMASMT	L1 D		HMASMTL2	D C				
SZAP TYPE Typea	HMASMFXF HMASMFPT HMASMTPL HMASMDRV	DR D M	HMASMS HMASMU HMASMT HMASMF	C1 D W	M P						
UCLIN UCLIN UMID UPD	HMASMUC1 HMASMIDU HMASMLCD	DR	HMASMT	RM D	P	HMASMUC1	D				
UPI USER UXD VER	HMASMLCP HMASMFPT HMASMUXC HMASMZAP	D DR DR DR	HMASMF			HMASMUC1	DR				
XXXHD XZAP YES ZAP	HMASMFPT HMASMFXF HMASMFPT HMASMLCP HMASMLCC	DR DR D	HMASMS HMASML P HMASMM	CD DR		HMASMLCP	DR				
02	HMASMLCC HMASMLCC HMASMLCC	DR DR D W									
2 257 259 3	HMASMUC1 HMASMUC1 HMASMUC1 HMASMLCC	DR DW	P								
3411 3412 4021	HMASMUC1 HMASMUC1 HMASMUC1	DR DR	P P								
KEY KEY	HMASMUC1 HMASMMPE HMASMMPE	DR D M	P					·			
LPAR RPAR VAL	HMASMMPE HMASMMPE HMASMMPE	D D							_		
E	HMASMAR3 HMASMPMG HMASMRIO HMASMTBM HMASMTPL	R C R	HMASMP		M M	HMASMCIL HMASMRCD HMASMTAD HMASMTMW HMASMTRM	DRWC M	HMASMIO HMASMRCF HMASMTAI HMASMTPA HMASMTSB	R M M	HMASMMPD HMASMRCL HMASMTBL HMASMTPC HMASMUC2	DW
EAREA EFND EINDX	HMASMLID HMASMAR2 HMASMFVL	D W DRW DRW							••		,
ELINE	HMASMTRM HMASMFPT HMASMRIO	D MC	P	BV B !!							
ES.V ETAB EVALA	HMASMAR2 HMASMAR1 HMASMTSB	D WC	HMASMM	PV D W							
EXRF E00	HMASMTRM HMASMAR1 HMASMAR1	DR C DR C DR C	P								
E02 E03 E04	HMASMARI HMASMARI HMASMARI	DR C DR C									

SYMBOL USAGE SYMBQL MODULE ACCESS MODULE ACCESS ACCESS MODULE ACCESS MODULE ACCESS MODULE HMASMEIS D
HMASMALC D
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HMASMUCD C
HMASMUCD C
HMASMUCD C
HMASMUCD C
HMASMUCD C
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HMASMUCD DR
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HMASMUCD DR UCLLASS UCLMTSSV UCLMTSSV UCLPATSSV UCLPATSSV UCLPATSSV UCLSSCDSSW UCLSSCDSSW UCLSSCDSSW UCLSSTSSV UCLSSTSSV UCLSTSSV UCLSTS HMASMUC4 DR HMASMUC2 С HMASMUC1 HMASMUC2 P HMASMUC2 P HMASMUC3 P HMASMUC4 С HMASMUC4 DRWC HMASMUC4 DR HMASMUC2 C HMASMUC3 D WC HMASMUC4 D WC HMASMUC3 D HMASMUC3 D HMASMUC4 DR HMASMUC4 D W HMASMUC4 DR HMASMUC4 DR HMASMUC4 DR HMASMUC4 DR UC1DSID UC2CODE UC3ERRCK UC3IOP UC3RTNCD UC3STOW ULEN ULEN UMIDCHK UMIDERR UMIDRC UMIDSMID UMIDSUPT UNCDEL UNCHKED UNKNOWN# UNKWN HMASMUC3 D UNPACK1 HMASMALC HMASMCPI HMASMFVL HMASMLKD HMASMMPH HMASMSER HMASMUC4 HMASMASI HMASMDRV HMASMFXF HMASMLKI HMASMMPI HMASMSUB HMASMUPI HMASMASM HMASMIO HMASMIO HMASMIOG HMASMMPV HMASMUC1 HMASMZAP HMASMCIL HMASMEIS HMASMLCD HMASMMPD HMASMMSG HMASMUC2 RRRRRRRR UNPKRTN HMASMOUS
UNPROC HMASMUD
UNRESTRICTED

UNRSTD HMASMAP
HMASMAP
HMASMAP
HMASMOUE
HMASMOUE
HMASMIDU
HMASMIDU
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HMASMIDU
HMASMITE
HMASMITE UNPKRTN HMASMAR4 HMASMAR4 HMASMOPL HMASMOPL HMASMIO HM HMASMARI HMASMCIY HMASMCPY HMASMCPY HMASMIFUC HMASMIFUC HMASMIFU HMASMIFU HMASMIFU HMASMIFU HMASMIFU HMASMIFU HMASMIFU HMASMIFU HMASMIFU HMASMIFU HMASMIFU HMASMIFU HMASMIFU HMASMIFU HMASMIFU HMASMASM HMASMCP2 HMASMCP2 HMASMCP2 HMASMDSU HMASMLCD HMASMLSG HMASMLSG HMASMTD1 HMASMTD1 HMASMTD1 HMASMTD1 HMASMTD1 HMASMTD1 HMASMTD1 HMASMTD0 HMA HMASMODI HMASMCRD HMASMCRD HMASMCRD HMASMGLOP HMASMRDSH HMASMRDS HMASMRDS HMASMTEC HMASMTPA HMASMTPA HMASMTPA HMASMTPA HMASMTPA HMASMTPA HMASMTPA HMASMTPA HMASMTPA HMASMTM2 HMASMTPD HMASMTP2 R HMASMUC4 R HMASMZAP R HMASMEIS DRWC HMASMIDU D WC UNUSEDSP UOSW

TYPGTPTB - UOSW

DEDEFINITION, PERFAD, WEWRITE, CECOMPARE, EEEGUATE OPERAND, MEMACRO, ASABSOLUTE, PEPARAMETER

YMBOL	MODULE	ACCES	s	MODULE	ACCE		MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
PCASE	HMASMDSU		_	UMAGMMER	D. HO		HMASMPRM	С	HMASMTMJ	м	HMASMUPD	
PD PDAKEY PDALPAR	HMASMDRV HMASMMPE HMASMMPE	D D	M	HMASMMPE	D WC	•	HILSHERM	·	HILASHIIIS		HITASHOF	•
PDARPAR PDARRAY PDASM	HMASMMPE HMASMDR1 HMASMDRV	D C	М	HMASMTMJ	R							
PDASMOS PDAT PDATE	HMASMUPD HMASMIO HMASMUPI	R	M									
PDATRC PDAVAL	HMASMIDU HMASMMPE	DRWC	M									
PDBUFFR PDCHANG PDCHECK	HMASMRDS HMASMREC HMASMTMJ	DRUC										
PDCHG PDCHK1 PDCHK2	HMASMREC HMASMREC HMASMREC	DR										
PDCK PDCPY	HMASMREC HMASMDRV	DW	P	HMASMTMJ	R							
PDCPY05 PDDCHNG PDDDNAM	HMASMUPD HMASMREC HMASMTMJ	DRW	M	HMASMUPD	R							
PDDENDU PDDFLT PDDFLTP	HMASMREC HMASMDS1 HMASMDS1	DR										
PDDNAME PDDN1 PDDN2	HMASMREC HMASMREC HMASMREC	DR D	M	HMASMUPI	DR	М						
PDDSCAN PDDSID	HMASMREC HMASMDRV	DRW		HMASMTMJ	W		HMASMUPD	R				
PDDSKIP PDDSKP PDDSNAM	HMASMREC HMASMREC HMASMTMJ	DW	M M	HMASMUPD	R							
PDDS1 PDDS1A PDDS2	HMASMREC HMASMREC HMASMREC	D	M									
PDDS3 PDELEM	HMASMREC HMASMTMS HMASMREC	D DR										
PDEND PDENDUP PDERROR	HMASMREC HMASMTMS	D WC										
PDEXC05 PDEXC10 PDEXC20	HMASMUPD HMASMUPD HMASMUPD	DR										
PDFAIL PDFLD1 PDFLD2	HMASMUPI HMASMUPI HMASMUPI	D W										
PDFND PDGTPAD	HMASMMPE HMASMUPD	D										
PDICT PDICTAD PDICTRC	HMASMIDU HMASMIDU HMASMIDU	DR C	P									
PDINDX PDKEY PDLKD	HMASMDRV HMASMMPE HMASMDRV	D	M	HMASMTMJ	R							
PDLKD05 PDLPAR PDMBR	HMASMUPD HMASMMPE HMASMUPI	D	M									
PDNDX PDNMFND PDNONE	HMASMBDL HMASMMPE HMASMREC	D R D										
PDOPT PDOTHER	HMASMUPI HMASMREC	DRW DR C	M						_			
PDPARM PDPERIO PDPGM	HMASMDRV HMASMMPE HMASMMPE	D	мР	HMASMTMJ	W	P	HMASMUPD		P			
PDPGMFD PDPGMLN PDPGMNM	HMASMMPE HMASMDRV HMASMDRV	PWC	M	HMASMMPE HMASMTMJ	DRW		HMASMTMJ HMASMUPD	, W	HMASMUPD	R C		
PDPGMS PDRCDFT	HMASMUPD HMASMDS1 HMASMTMS	P DR			•							
PDREP PDRPAR PDRTNCD	HMASMMPE HMASMUPD	D DRWC	M									
PDSSI PDSTYP e PDSUCC	HMASMUPI HMASMTMJ HMASMUPI	W		HMASMUPD	R							
PDSW PDSW1 PDSW2	HMASMUPD HMASMUPD HMASMUPD	D W										
PDSYSMD PDTEALI PDTECRD	HMASMDRV HMASMUPI HMASMUPI	DR		HMASMTMJ	RW		HMASMUPD	R				
PDTEFUN PDTENAM	HMASMUPI HMASMUPI	D W										
PDTEREG PDTEREP PDTESMP	HMASMUPI HMASMUPI HMASMUPI	D.R.										
PDTKEY PDTLRCL PDTRACE	HMASMMPD HMASMUPD HMASMDRV	DR _W	M									
PDTSYSD PDTSYSL PDT010	HMASMCPY HMASMCPY HMASMUPD	DR DR										
PDT030 PDUPD PDUPD05	HMASMUPD HMASMDRV HMASMUPD	D R		HMASMTMJ	R		HMASMTMS	DR C				
PDVAL PDX	HMASMMPE HMASMUPI	D RW										
PIERROR PLEVCHK PLEVEL	HMASMUPI HMASMTMS HMASMTMS	DR DRWC										
PLIM PPARM PPTFFLG	HMASMLOG HMASMUPI HMASMIDU	D W										
PPTFRC	HMASMIDŪ ION, R=RE	DRWC										

UPCASE - UPPTFRC

				SYMBO	L USAGE					
YMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE AC	CESS	MODULE	ACCESS	MODULE	ACCESS
	UMACMIRU	D. 140								
PPTFWRT	HMASMIDU HMASMUPI	DRWC								
PSYSUT1 PSYSUT2	HMASMUPI HMASMUPI	D W								
PTR Sedlen	HMASMCP2 HMASMTBM	DRW	HMASMTRI	DRW						
SEIT Ser	HMASMDSU HMASMSCN	DR C								
SERKEY Serl	HMASMMPD HMASMAAR	D M	HMASMMPH	ID M	HMASMREC D					
SERMOD SERMODC	HMASMAR1 HMASMDRV	DR	HMASMAR4	DR						
SERREG	HMASMCRD	D								
SERSAV Srbuffr	HMASMDRV HMASMRDS	W								
SRKEY Srrcd	HMASMGTA HMASMGTA	RWC								
T1 T1SYSIN	HMASMDR1 HMASMUPI		P							
T2 T3	HMASMDR1 HMASMDR1	DR	P P							
XCCODE	HMASMREC HMASMUXC	DRW	HMASMTMD	DRW	HMASMTRM DR	W				
CDELET	HMASMUXC	DR	-							
XCDETER XCINTF	HMASMUXC	DR	_							
XCPARM XCRTNCD	HMASMUXC	DRWC	P							
XCRTNCK XCSW	HMASMUXC	D								
XP_ALL XP_MAIN	HMASMUXD	R R	HMASMUXF HMASMUXF							
XP_MAIN_	BASE HMASMUXC	R	HMASMUXE	, с						
XP_RTN XP-001	HMASMCRD HMASMCRD	R	HMASMUXO	; R	HMASMUXP HMASMUXC R	C	HMASMUXP	С		
XP_001_B	ASE HMASMCRD	r. R	HMASMREC		HMASMUXC R		HMASMUXD	R	HMASMUXP	С
XPADD XPCTBAD	HMASMCRD HMASMUXP	С	HMASMUX		HMASMUXP D		III IAO II OAO	•		•
XPDEL	HMASMCRD	С	HMASMUX	_ c	HMASMUXP D					
XPFUNCT XPGOOD	HMASMUXC HMASMCRD	c	HMASMUXE HMASMUXC	C C	HMASMUXD R		HMASMUXP	D		
XPLOEAD XPLOJAD	HMASMUXC HMASMUXP		HMASMUXF	ס י						
XPMN01 XPMN99	HMASMUXP HMASMUXP	D								
XPMODAD XPPRMAD	HMASMUXP HMASMUXC	DW	HMASMUXE	р Б						
XPRTN01 XPRTN99	HMASMUXP	D		-						
XPTFUNC IXPTPTF	HMASMUXC	RC	HMASMUX F							
IXPTSMP	HMASMUXC	R C	HMASMUXE	, D						
XPUXAD XPUXNAM	HMASMUXC	RW	HMASMUXE	, D						
XPUXNUM XPUX001	HMASMUXC HMASMCRD		P HMASMUXF		HMASMUXC	С	HMASMUXP	DR		
XP00101 XP00199	HMASMUXP HMASMUXP	D								
XP0199 X001E0F	HMASMUXP HMASMCRD	R R	HMASMUXE	D D						
X001PRM X001RC	HMASMCRD HMASMCRD	W	P HMASMUXO	DR	HMASMUXP D					
X001RCD	HMASMCRD HMASMUC 2	RW	HMASMUXE	D						
ALDSNSW	HMASMEIS HMASMEIS	DRWC								
ALID	HMASMMCD		HMASMPMO	D WC	HMASMTMS D					
ALIDVER AR	HMASMREC HMASMAR3	DRWC	HMASMCIL	. <u>M</u>		С	HMASMRCD		HMASMRCF	!
	HMASMTDD HMASMTRM	M	HMASMTP A		HMASMTPC HMASMUC2	M	HMASMTPL	M	HMASMTPR	P
ARLEN	HMASMMSG HMASMMSG									
ARPART1	HMASMAR1 HMASMAR2		HMASMAR	DW	HMASMAR3 D	W	HMASMAR4	D W		
ARPART3 ARSTART	HMASMAR 2 HMASMMSG	D W								
ARSTRNG	HMASMMSG	R								
DCFMIDa	HMASMTBL HMASMTPA HMASMTPA	DRW	•							
DCIOP DCRC	HMASMTPA	DRW	P							
DCSCL DEL	HMASMTPA HMASMUC2	D	P							
ENDUCL Ent	HMASMUC2 HMASMVLU	RWC								
ENTMRK Enttyp	HMASMVLU HMASMVLU	D C								
ENTVAL Er	HMASMVLU HMASMZAP	D D								
ËRBEXIT Erbld	HMASMDRV HMASMTPA	DR								
ERBSETS ERCHK	HMASMDRV HMASMREC	DR DR								
ERCHKE	HMASMREC HMASMREC	D W	P							
ERCK ERCKERR	HMASMREC	D WC	-							
ERCNT ERCNTR	HMASMTPC HMASMMPV	DRWC								
ERDELCK Erflags	HMASMTPA HMASMTPC	D								
ERFLGS ERFLPAR	HMASMREC HMASMMPE	D W								
ERFMID ERFRPAR	HMASMREC HMASMMPE	D WC								
		-								

					SYM	30 L	USAGE					
MBOL	MODULE	ACCESS	_	MODULE	ACCESS	_	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCE
RFVALA	HMASMMPE											
RKEY RMAX	HMASMMPD	D C	P	UMARMERA		P						
RNDX	HMASMTEC	D WC	P	HMASMTPC	р С	•						
RPASS RPROC PRC	HMASMZAP HMASMREC HMASMFPT	DR										
RRTNCD RSBIT	HMASMGTA HMASMMPE	DRMC		HMASMRDS	DRW							
RSFND RSION	HMASMMPE HMASMMPV	D M	I	HMASMTMS	DP							
RSIOND RSKEY	HMASMTMS HMASMMPE	DRWC	ı									
RSKEYF RSKEY1	HMASMMPE HMASMMPE	D M	1									
RSKEY2 RSKEY3	HMASMMPE HMASMMPE	D M										
RSLPAR RSLPA1	HMASMMPE HMASMMPE	D										
RSLPR2 RSLPR5	HMASMMPE HMASMMPE	D										
RSMD RSRH	HMASMF PT HMASMT PC	DR										
RSRHRC	HMASMTPC	D										
RSRPA1 RSRPA2 RSRPA5	HMASMMPE HMASMMPE HMASMMPE	D										
RSVAL RSVALA	HMASMMPE	D M										
RSVALB RSVAL2	HMASMMPE	D M	ı									
RSVAL5	HMASMMP E HMASMF V L	D M										
RX RXMAX	HMASMF PT HMASMF PT	DRW	P									
RXMIN Ry	HMASMFPT HMASMFPT	DRW										
RZ Xtra	HMASMFPT HMASMUC2	D M	ı	.	_			_				
PADD	HMASMAAR HMASMCRW	R		HMASMCOM	R		HMASMRCD HMASMMPI	R	HMASMUPI	R	HMASMZAF HMASMSEC HMASMVLU	R
PCLR	HMASMSUP HMASMUC2	R		HMASMUC2 HMASMVLP	DR		HMASMUC3 HMASMVLU	^R C	HMASMVLP	D	HMASHVLC	, .
PCONTN PDATA	HMASMVL P HMASMCRW HMASMSEC	W		HMASMIDU HMASMSUP	W		HMASMMPI HMASMUC2	W RW	HMASMMPV HMASMUC3		HMASMRE,	, D M
PDEL	HMASMVLU HMASMREJ	R R		HMASMUC2			HMASMUC3	R	HMASMVLP		HMASMVLU	
PDSCT PDSECT	HMASMVL P HMASMVL P	С			_			_		_		
PERR PFLAG	HMASMUC2 HMASMVLP	D		HMASMUC3			HMASMVLP	_	HMASMVLU		UMACMSES	
PFMSG PFRSV	HMASMURZ HMASMUCZ HMASMVLP	W		HMASMMPI HMASMUC3	W W		HMASMMPV HMASMVLP	DW	HMASMRE J HMASMVL U		HMASMSEC	: W
PFUNCT	HMASMCRW HMASMSEC	W		HMASMIDU HMASMSUP	W W		HMASMMPI HMASMUC2	MC M	HMASMMPV HMASMUC3		HMASMRE J HMASMV L P	
PGOOD	HMASMVLU HMASMCRW	R		HMASMREJ			HMASMUC2	c	HMASMVLP		HMASMVLU	. R.
PLPTR	HMASMCRW HMASMSEC	W		HMASMIDU HMASMSUP	W W		HMASMMPI HMASMUC2	M	HMASMMP V HMASMUC3		HMASMREJ HMASMVL P	
PMNAME	HMASMVLU HMASMCRW	W		HMASMIDU			HMASMMPI	W	HMASMMPV		HMASMRE J HMASMV L P	
PMTYPE	HMASMSEC HMASMVLU HMASMCRW	R		HMASMSUP	W		HMASMUC2	W	HMASMUC3		HMASMREJ	_
PMITPE	HMASMSEC	W		HMASMSUP	ũ		HMASMUCZ	ฉี	HMASMUCE		HMASMVLF	
PPEEXC	HMASMCRW HMASMVLU	С		HMASMIDU	С		HMASMMPV	С	HMASMSUP	С	HMASMVLF	D
PREP Pretrn	HMASMUC2 HMASMCRW	RC		HMASMUC3 HMASMIDU	RC		HMASMVLP HMASMMPI		HMASMVLU HMASMMPV		HMASMRE	
	HMASMSEC HMASMVLU	R		HMASMSUP	С		HMASMUC2	RC	HMASMUC3	С	HMASMVLF	D
PSNTRY PSTYPE	HMASMVLP HMASMCRW	W		HMASMVLU	W		HMASMMPI	W	HMASMMPV		HMASMREJ	_ W
	HMASMSEC	R		HMASMSUP			HMASMUC2	RW	HMASMUCS		HMASMVLF	
PTYPE	HMASMCRW HMASMSEC HMASMVLU	W		HMASMIDU HMASMSUP			HMASMMPI HMASMUC2	W	HMASMMPV HMASMUC3		HMASMRE J HMASMVL P	
PWARN UCMPRS	HMASMVLU	С		HMASMUC3	С		HMASMVLP	D	HMASMVLU	R		
USTMSG ADD	HMASMVLU	DR	ı									
ART#1 ART#2	HMASMREC HMASMREC	DRW DRW	P	HMASMTMD HMASMTMD	DRW	P	HMASMTMS HMASMTMS					
ART#3 ART#4	HMASMREC HMASMTMS	D R W	P	HMASMTMD	DRW		HMASMTMS	DRW				
ART#5 ART#6	HMASMTMS HMASMTMS	DRM										
ART#7 ARTS	HMASMTMS HMASMREC	D W		HMASMTMD	D W		HMASMTMS	D				
DEL Enducl Eriod	HMASMUC2 HMASMUC2 HMASMUC2	DR M										
ERROR PERIOD	HMASMUC2 HMASMUC2	DR M	i									
REP TR	HMASMUC2 HMASMVLU	DR M										
319I 382I	HMASMTMS	D										
BICTP BIOP	HMASMTPA HMASMTPA	DR DR	P									
BRC	HMASMTPA											

MBOL	MODULE	ACCESS		MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCES
BSCL	HMASMTPA	DP	P								
EP NDX			Þ								
SINDX1	HMASMPEC	D W	Þ								
DATA END	HMASMFVL HMASMFVL	DR DR C									
.IST .KDK	HMASMFVL HMASMUPD	D M	P								
TAT	HMASMFVL HMASMFVL	D C									
	HMASMTMD HMASMIO	DRW									
Ţ	HMASMMSG	R M									
RN RNPT F	HMASMUC2 HMASMAAR	D M		HMASMBDL		HMASMCOM		HMASMCPI		HMASMLKI	DR
NSW	HMASMTL 2 HMASMUC 3			HMASMUPD	DR	HMASMUPI	DR	HMASMZAP	DR		
KANS	HMASMTMD HMASMIO	D C	P								
LE	HMASMAAR	R		HMASMALC	R	HMASMAR1	R	HMASMAR2	R R	HMASMAR3	R
	HMASMAR4 HMASMCIL	R R		HMASMASI HMASMCMP	R R	HMASMASM HMASMCOM	R R	HMASMBUE HMASMCPI	R	HMASMBUR HMASMCPL	R
	HMASMCPY HMASMDR1	R R		HMASMCP2 HMASMEIS	R R	HMASMCRD HMASMFPT	R R	HMASMCPW HMASMF V L	R R	HMASMDLE HMASMFXF	R R
	HMASMIDU HMASMLKD	R R		HMASMIO1 HMASMLKI	R R	HMASMLCC HMASMLOG	R R	HMASMLCD HMASMMPE	R R	HMASMLCP HMASMMSG	R R
	HMASMPGC	Ř R		HMASMRCD	Ř R	HMASMRCL HMASMSUP	R R	HMASMREC HMASMTBL	R R	HMASMR JD HMASMTBM	R
	HMASMSEC HMASMTCL	R		HMASMSUB	R	HMASMTDD	R	HMASMTD1	R	HMASMTEC	R
	HMASMTID HMASMTMJ	R		HMASMTL1 HMASMTMS	R R	HMASMTL 2 HMASMTM1	R R	HMASMTL3 HMASMTM2	R R	HMASMTMD HMASMTM3	R
	HMASMTM4 HMASMTPO	R R		HMASMTPA HMASMTPR	R R	HMASMTPC HMASMTPS	R R	HMASMTPD HMASMTP2	R R	HMASMTPL HMASMTRM	
	HMASMTR1 HMASMUC4	Ř Ř		HMASMTSB HMASMUPD	Ř Ř	HMASMUC1 HMASMUPI	R R	HMASMUC2 HMASMVLU	R R	HMASMUC3 HMASMXRF	R R
BIVET	HMASMZAP	R							.,		
BLKSI Ent	HMASMIO HMASMIO	DR D									
RTN	HMASMIO HMASMDR1	DR DR	P	HMASMIO	DR						
ENT IDCB	HMASMIO Hmasmio	D									
ODCB RTN	HMASMIO HMASMIO	D									
	HMASMDR1	DR	P	HMASMIO	DR						
ENT IDCB	HMASMIO HMASMIO	D .									
ODCB RTN	HMASMIO	B									
ENT	HMASMDR1 HMASMIO	DR D	P	HMASMIO	DR						
IDCB	HMASMIO HMASMIO	Ď									
RTN	HMASMIO	Ď	P	HMACMTO	DR						
ENT	HMASMDR1 HMASMIO	D R	۲	HMASMIO	UR						
ODCB	HMASMIO	B									
RTN	HMASMIO HMASMDR1	D DR	P	HMASMIO	DR						
ENT IDCB	HMASMIO HMASMIO	D									
ODCB	HMASMIO	Ď									
RTN	HMASMIO HMASMALC			HMASMAR1	D	HMASMAR2		HMASMAR3		HMASMAR4	
	HMASMASM HMASMCPL	D		HMASMBDL HMASMCPY	D	HMASMBUE HMASMCP2	D	HMASMCCA HMASMCRD	B	HMASMCRP HMASMCRP	D
	HMASMDC2 HMASMFVL			HMASMDRV HMASMFXF	D	HMASMDSU HMASMGTA	D D	HMASMEIS HMASMICT	D	HMASMFPT HMASMIO	D
	HMASMIOP	Ď		HMASMLCC HMASMLKD		HMASMLCD HMASMLOG		HMASMLCP HMASMMGP	D	HMASMLC1 HMASMMPD	
	HMASMLID	D		HMASMMPH	D	HMASMMPI		HMASMMPV	Ď	HMASMMSG	
	HMASMRCD HMASMSUB	D		HMASMTBL		HMASMREC HMASMTBM	D	HMASMR JD HMASMTCL	Ď	HMASMSTA	D
	HMASMTD1 HMASMTP2	D		HMASMTL 2 HMASMTRM		HMASMTMD HMASMTR1	D	HMASMTMS HMASMTSB	D	HMASMTMW HMASMUC1	D
	HMASMUC2 HMASMUXP	D		HMASMUC3 HMASMZAP		HMASMUC4	D	HMASMUPI	D	HMASMUXC	D
K K area	HMASMCOM HMASMCIL	DR M		HMASMCOM		HMASMCPI	D	HMASMFXF	DR	HMASMLKI	D
	HMASMLOG	DRW		HMASMSER			-	AVITE AF	J.,		-
KCHAR K5	HMASMSER HMASMSER	DRW									
PUP IRIOP	HMASMLOG HMASMEIS	D									
IRPTR IRRC	HMASMEIS HMASMEIS	DR									
TE TEALI	HMASMIO HMASMUPI	DR		HMASMLKI	DR	HMASMTMD	DR				
TEBUF	HMASMTMW HMASMLKD	DR	P								
TECC	HMASMLKD	DR									
TEPTS	HMASMREC HMASMIO	D W									
TRC	HMASMEIS HMASMEIS	D RWC									
TSW	HMASMEIS HMASMIO	D DR									
CARD	HMASMTMW	DRW	P								
CHK	HMASMTMD HMASMTMW	D									
CRD72 DATA	HMASMTMW HMASMTMW	D C									
SEQ SYSIN	HMASMTMW HMASMUPI	D WC									
NTCNT RRMSG	HMASMIO HMASMIO	DRWC DR									
	anasni o										

VRBSCL - WTERRMSG
344 OS/VS System Modification Program (SMP) Logic

					SYMBO	USAGE					
SYMBOL	MODULE	ACCES	s	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
		_									
MTOLEN	HMASMMSG HMASMMSG	D W									
WTOLST WTOMGP	HMASMMSG HMASMMSG	DR									
WTOMSG WTOR	HMASMMSG HMASMMSG	R	М								
WTORECB WTORLST	HMASMMSG HMASMMSG	B									
WTORMGP WTORMSG	HMASMMSG HMASMMSG	DR	м								
WTORRAD	HMASMMSG	D									
WTORRLN WTORTLN	HMASMMSG HMASMMSG	D									
WTORTXT WTOTXT	HMASMMSG HMASMMSG										
WTRBUFAD WTRBUFSV	HMASMLID HMASMFPT			HMASMFVL	DRW	HMASMLCD	DRW	HMASMLCP	DRW		
WTRCOPY WTRDSID	HMASMCOM HMASMFPT	DR		HMASMCPI HMASMFVL	DR	HMASMLCD		HMASMLCP		HMASMLID	DPM
WTRFUNCT	HMASMFPT			HMASMFVL		HMASMLCD	DRW	HMASMLCP		HMASMLID	
WTSAVE WTSVAREA	HMASMIO HMASMIO	R									
XCAL	HMASMASI HMASMLKI			HMASMCOM	DRW	HMASMCPI	DRW	HMASMCRW	D MC		
XENTRY XFLG	HMASMTMS HMASMTMS	DR C	P								
XIOP XMID	HMASMTMD HMASMIDU	DR		HMASMTM1	DPMC	HMASMTM2	DPWC	HMASMTM3	DRMC		
XMIDLS	HMASMIDU	DR	P	mingilling.	DRAG		DAHO	magning	D. HO		
XNDX XPNDPTR	HMASMIDU HMASMIMD	DRW	P								
XPNDRC XPNDSEL	HMASMTMD HMASMTMS	DR	P								
XPNDZAP XPRL	HMASMTMD HMASMREC	DR		HMASMTMD	DR						
XREFLINE XREFRC	HMASMFXF HMASMFXF	D									
XREFX XRF	HMASMFXF	DRUC	м	HMASMFXF	м	HMASMLID	м	HMASMPRM	С	HMASMTRM	м
	HMASMDLE HMASMXRF		M			HIMASIILID	171	HIMSHERM	C	nnasiii kii	PI
XRFASMMC XRFCLEAN	HMASMFXF HMASMXRF	DR		HMASMXRF	R						
XRFENAME Xrfetype	HMASMFXF HMASMFXF	RMC		HMASMTRM HMASMTRM	RWC RWC	HMASMXRF HMASMXRF	RW WC				
XRFGTP XRFINIT	HMASMXRF HMASMXRF	DR DR	P								
XRFIOP XRFKEY1	HMASMXRF HMASMLID	DR C									
XRFLMDMD	HMASMDLE	С		HMASMFXF	D C	HMASMXRF	R				
XRFMACP1 XRFMODP1	HMASMXRF HMASMXRF	DR			_					•	
XRFPBYMC XRFPBYMD	HMASMFXF HMASMFXF	c		HMASMTRM HMASMTRM	R R	HMASMXRF HMASMXRF	R R				
XPFPBYSC XRFPTDEL	HMASMFXF HMASMFXF	ьс		HMASMXRF HMASMXRF	R R						
XRFPTFP1 XRFPTIRQ	HMASMXRF HMASMFXF	DR D		HMASMXRF	R						
XRFPTNPR XRFPTPRE	HMASMFXF HMASMFXF	Ď		HMASMXRF HMASMXRF	Ř R						
XRFPTREQ	HMASMFXF	D		HMASMXRF	Ř						
XRFPTSUP XRFPTVER	HMASMFXF HMASMFXF	D_		HMASMXRF HMASMXRF	R R						
XRFRCD XRFRCDAD	HMASMDLE HMASMXRF	R DR		HMASMFXF	RW	HMASMLID	R	HMASMTRM	₽W	HMASMXRF	RW
XRFRCD1 XRFRCD2	HMASMXRF HMASMXRF	W									•
XRFRCD4 XRFRTNCD	HMASMXRF HMASMXRF	DRWC									
XRFRTYPE	HMASMDLE	С		HMASMFXF	R C	HMASMTRM	RWC	HMASMXRF	MC		
XRFSETUP XRFSKIP1	HMASMTRM HMASMXRF	DR D									
XRFSKIP2 X RFS KIP3	HMASMXRF HMASMXRF	В									
XRFSKIP4 XRFSKIP5	HMASMXRF HMASMXRF	D									
XRFSKIP6 XRFSKIP7	HMASMXRF HMASMXRF	D									
XRFSMODX XRFSRC	HMASMTRM HMASMTRM	DRW									
XRFSRCMC	HMASMFXF	D C		HMASMXRF	R						
XRFSW XRFX4PTF	HMASMXRF HMASMFXF	D R		HMASMXRF	W						
XRF1ASM XRF1MAC	HMASMXRF HMASMFXF	RW		HMASMXRF	W						
XRF2LMD XRF2MOD	HMASMDLE HMASMDLE	R C	P	HMASMXRF HMASMFXF	R	HMASMXRF	W				
XRF3DAT XRF3MOD	HMASMFXF HMASMTRM	R C	·	HMASMXRF	W						
XRF3PF1 XRF3PF3	HMASMXRF HMASMXRF	M							,		
XRF3PIND	HMASMFXF	C		HMASMTRM	F		W				
XRF3PTF XRF3PTYP	HMASMFXF	_ c		HMASMYRF	R _W C M	HMASMXRF	W				
XRF3STAT XRF3TIM	HMASMFXF HMASMXRF	R W		HMASMTRM	R						
XRF4PTF XTNDCHAR	HMASMXRF HMASMIO	R									
XTNDLEN XTRABITS	HMASMIO HMASMMPE	DR C	P								
XTRADATA XTRAINFO	HMASMDRV HMASMDRV	DR	M M								
XXXXRC	HMASMTRM	DPW									
XXXXXXX	HMASMTRM HMASMIO		М								
XX1 XX1CHN	HMASMDR1 HMASMCPL	DR	P								
XX1INDX	HMASMCPL	DRW									

D=DEFINITION, R=READ, W=WRITE, C=COMPARE, E=EQUATE OPERAND, M=MACRO, A=ABSOLUTE, P=PARAMETER

SYMBOL	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS	MODULE	ACCESS
EGS RTI PI EGS RT	HHEN MAAAASSM MODORII	P PPP PP P CCCCC CCC CCCCCCCCCCCCCCCCC		M	HMASMOSI HMASMREC HMASMTRI	DP C	HMASMIDU HMASMICR HMASMUCI	D M	HMASMIO HMASMTD1 HMASMUC2	DR C M
YWKK45 KKTTPR XAPPERSH ZAAPPERSH ZAAPPERSH ZAAPPERSH ZAAPPELSO ZAAPPELSO ZAAPPELSO ZAAPPELSO ZAAPPELSO ZAAPPELSO ZAAPPELSO ZAAPFELSO ZAAPFELSO ZAAPFELSO ZAAPFELSO ZAAPFELSO	HMASMORI HMASMORI HMASMORI HMASMICIW HMASMICIW HMASMOSI HMASMOSI HMASMOSI HMASMICAP HMASMICAP HMASMICAP HMASMICAP HMASMICAP HMASMICAP HMASMICAP HMASMICAP HMASMICAP HMASMICAP HMASMICAP HMASMICAP HMASMICAP HMASMICAP HMASMICAP	DDD DDD DDD DDD DDD DDD DDD DDD DDD DD	HMASHMPE D		HMASMUC1	D				
ZAPMODX ZAPPATO ZAPPETO ZAPRCDFT ZAPRCDFT ZAPRCAR ZAPSCN ZAPSCN ZAPSCN ZAPSCN ZAPSCN ZAPSCN	HMASMTMD HMASMMDE HMASMMDS1 HMASMMDS1 HMASMMPE HMASMMPE HMASMMPE HMASMMPE HMASMAR	DR PDDR MPDDR MDDR C	HMASMALC	• c	HMASMARL	<u> </u>	HMASMAR1	P C	HMASMAR 2	R C
	HMASMAUE HMASMCPIE HMASMCPIE HMASMDSI HMASMICC H	RRR RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	HMASMARA HMASMOPU HMASMOPU HMASMIDU HMASMIDU HMASMIDU HMASMIKI HMASMIKI HMASMROS	PPP CCCCCCC CC CCCCCC RTRTTTTTTTTTTTTTTTTTT	HMASMASĪ HMASMCPĻ HMASMCPĻ HMASMOPĻ HMASMIOP HMASMIO HMASMICO HMAS		HMASMASM HMASMCRD HMASMCRD HMASMFVL HMASMION HMASMICN HMASMICN HMASMREJ HMASMREJ HMASMREJ HMASMTBL HMASMTBL HMASMTBL HMASMTBL HMASMTBL HMASMTBL HMASMTBL HMASMTBL HMASMTBL HMASMTBL HMASMTBL HMASMTBL	R C C C C R C R R	HMASMBOLL HMASMCRW HMASMCRW HMASMIST HM	
ZERODDN ZEROPTF# ZEROS ZERO2 ZFLAGS1	HMASMTD1 HMASMCOM HMASMUFI HMASMTL1 HMASMZAP	D ₩	HMASMCPI D		HMASHREC	D₽	HMASMSCN	DR	HMASMTMJ	DR
ZFLAGS2 ZI Zone	HMASMZAP I HMASMTMS I HMASMASI I	DRW	HMASHMSG D	•	HMASMZAP	DR				

DEDEFINITION, REREAD, WEMPITE, CECOMPARE, EXECUATE OPERAND, MEMACRO, AMABSOLUTE, PEPARAMETER

MACRO USAGE

				HAUKU		*					
MACRO	TOTAL #	MODULE	#_	MODULE	#	MODULE		MODULE	#	MODULE	#_
BLDL	3	HMASMBDL	2	HMASMIO	1						
CAMLST Case	2 1	HMASMALC HMASMLOG	2 1								
CHECK	, 2	HMASMIO	2	HMASMIO	15						
CVT	16 1	HMASMDRV HMASMSTA	ī								
DCB Delete	54 2	HMASMBDL HMASMUXC	1 2	HMASMIO	53						
DEVTYPE		HMASMBDL	1	HMASMCOM	1	HMASMDR1	7	HMASMDSU	3	HMASMIO	1
DSCAN	17	HMASMTDD HMASMASM	2 19	HMASMTL2 HMASMCPY	2 41	HMASMDRV	150	HMASMDSU	7	HMASMLCP	3
500		HMASMLKD	11	HMASMMPD	15	HMASMMPE	277	HMASMMPH	14	HMASMMPI	13
	1.009	HMASMMPV HMASMUC4	17 12	HMASMREC HMASMUPD	16 20	HMASMUC1 HMASMZAP	247 13	HMASMUC2	99	HMASMUC3	35
DUMP Endcase	1	HMASMCRD HMASMLOG	1								
ENDSUB	5	HMASMLOG	5								
ESTAE Freemain	1	HMASMSTA HMASMASM	1	HMASMDRV	10	HMASMGTA	3	HMASMIO	1	HMASMRDS	1
	23	HMASMSTA	1	HMASMSUB	Ĭ	HMASMTBL	2	HMASMTCL	ī	HMASMUPD	2
GET GETMAIN	1	HMASMIO Hmasmasm	1	HMASMDRV	2	HMASMDSU	6	HMASMGTA	2	HMASMIO	1
	18	HMASMRDS HMASMAAR	1	HMASMSTA HMASMALC	1	HMASMSUB HMASMAR L	1	HMASMTBL HMASMAR1	2	HMASMUPD HMASMAR2	ļ
HMASMCCA		HMASMAR3	ī	HMASMAR4	1	HMASMASI	1	HMASMASM	i	HMASMBDL	i
		HMASMBUE HMASMCPI	1	HMASMBUR HMASMCPL	1	HMASMCIL HMASMCPY	1	HMASMCMP HMASMCP2	1	HMASMCOM HMASMCRD	1
		HMASMCRW	ī	HMASMDC2	1	HMASMDLE	1	HMASMDRV	į	HMASMDR1	į
		HMASMDR2 HMASMFVL	1	HMASMDSU HMASMFXF	1	HMASMDS1 HMASMIDU	1	HMASMEIS HMASMIO	i	HMASMFPT HMASMLCC	i
		HMASMLCD HMASMLKI	1	HMASMLCP HMASMLOG	1	HMASMLC1 '	1	HMASMLID HMASMMPE	1	HMASMLKD HMASMMPH	1
		HMASMMPI	ī	HMASMMPV	1	HMASMMSG	1	HMASMPGC	i	HMASMRCC	į
		HMASMRCD HMASMREJ	1	HMASMRCF HMASMRJD	1	HMASMRCL HMASMSEC	1	HMASMRDS HMASMSER	1	HMASMREC HMASMSTA	1
		HMASMSUB	ī	HMASMSUP	1	HMASMTAD	1	HMASMTAI	į	HMASMTBL	11111111111111111111111111
		HMASMTBM HMASMTEC	i	HMASMTCL HMASMTID	1	HMASMTCR HMASMTL1	1	HMASMTDD HMASMTL2	i	HMASMTD1 HMASMTL3	i
		HMASMTMD HMASMTM3	1	HMASMTMJ HMASMTM4	1	HMASMTMS HMASMTPA	1	HMASMTM1 HMASMTPC	1	HMASMTM2 HMASMTPD	ļ
		HMASMTPL	ī	HMASMTPO	1	HMASMTPR	1	HMASMTPS	1	HMASMTP2	i
		HMASMTRM HMASMUC3	1	HMASMTP1 HMASMUC4	1	HMASMTSB HMASMUPD	1	HMASMUC1 HMASMUPI	1	HMASMUC2 HMASMUXC	1
	103	HMASMVLU	ī	HMASMXRF	1	HMASMZAP	ī		_		
HMASMCRP		HMASMASM HMASMLKD	1	HMASMCPY HMASMMPD	1	HMASMCRD HMASMMPE	1	HMASMDRV HMASMMPH	1	HMASMLCP HMASMMPI	1 1 1
		HMASMMPV HMASMTPC	1	HMASMPEC HMASMUCD	1	HMASMTMD HMASMUC1	1	HMASMTMJ HMASMUC2	1	HMASMTMW HMASMUC3	1
	22	HMASMUC4	1	HMASMUPD	i	HHASHOCI	-	HIASHOCZ	•	HIMSHOUS	-
HMASMGPF HMASMGTP	4	HMASMRCD HMASMAR1	1	HMASMAR2	1	HMASMAR3	1	HMASMAR4	1	HMASMBUR	1
III IAGII GI F		HMASMCRW	ī	HMASMDC2	1	HMASMDLE	1	HMASMDRV	1	HMASMDSU	1
		HMASMEIS HMASMLKD	1	HMASMFXF HMASMPGC	1	HMASMGTA HMASMRCC	1	HMASMLCC HMASMRCD	1	HMASMLID HMASMRCF	i
		HMASMRCL HMASMTCR	1	HMASMREC HMASMTD1	1	HMASMREJ HMASMTL1	1	HMASMTBL	1	HMASMTCL HMASMTM1	ļ
		HMASMTM2	i	HMASMTM3	1	HMASMTM4	1	HMASMTMJ HMASMTPA	ī	HMASMTPC	1 1 1 1
	41	HMASMTPL HMASMXRF	1	HMASMTPR	1	HMASMTP2	1	HMASMTRM	1	HMASMUC3	1
HMASMICT		HMASMAAR	ī	HMASMAR1	1	HMASMAR2	1	HMASMAR3	1	HMASMAR4	1
		HMASMASI HMASMCPL	1	HMASMCIL HMASMCP2	1	HMASMCMP HMASMDC2	ì	HMASMCOM HMASMDLE	1	HMASMCPI HMASMDRV	i
		HMASMDSU HMASMTAD	1	HMASMIDU HMASMTAI	1	HMASMLKI HMASMTBL	1	HMASMSEC HMASMTBM	1	HMASMSUP HMASMTCL	1111111111111
		HMASMTCR	1	HMASMTDD	1	HMASMTD1	1	HMASMTEC	ī	HMASMTID	į
		HMASMTL1 HMASMTMS	1	HMASMTL2 HMASMTMW	1	HMASMTL3 HMASMTM1	1	HMASMTMD HMASMTM2	1	HMASMTMJ HMASMTM3	1
		HMASMTM4 HMASMTPO	1	HMASMTPA HMASMTPR	1	HMASMTPC HMASMTPS	1	HMASMTPD HMASMTP2	1	HMASMTPL HMASMTRM	į
	54	HMASMTR1	ī	HMASMTSB	1	HMASMUPI	1	HMASMZAP	1		
HMASMIOP		HMASMAAR HMASMAP4	1	HMASMALC HMASMASI	1	HMASMAR1 HMASMASM	1	HMASMAR2 HMASMBUE	1	HMASMAR3 HMASMBUR	1 1 1
		HMASMCIL	ī	HMASMCMP	. 1	HMASMCOM	1	HMASMCPI	į	HMASMCPL	į
		HMASMCPY HMASMDRV	1	HMASMCP2 HMASMDR1	1	HMASMCRD HMASMDR2	1	HMASMCRW HMASMDSU	ì	HMASMDLE HMASMDS1	1
		HMASMEIS HMASMIO	1	HMASMFPT HMASMION	1	HMASMFVL HMASMIO1	1	HMASMFXF HMASMLCC	1	HMASMIDU HMASMLCD	1
		HMASMLCP	1	HMASMLC1	1	HMASMLID	ī	HMASMLKD	ī	HMASMLKI	1
		HMASMLOG HMASMMPV	1	HMASMMPD HMASMMSG	1	HMASMMPE HMASMPGC	1	HMASMMPH HMASMRCC	1	HMASMMPI HMASMRCD	1
		HMASMRCF HMASMRJD	ļ	HMÄSMRCL HMASMSEC	" 1	HMASMRDS HMASMSUB	1	HMASMREC HMASMSUP	1	HMASMREJ HMASMTAD	1
		HMASMTAI	į	HMASMTBL	1	HMASMTBM	1	HMASMTCL	į	HMASMTCR	1
		HMASMTDD HMASMTL2	1	HMASMTD1 HMASMTL3	ì	HMASMTEC HMASMTMD	1	HMASMTID Hmasmtmj	1	HMASMTL1 HMASMTM S	1
		HMASMTMW	1	HMASMTM1	1	HMASMTM2	1	HMASMTM3	ī	HMASMTM4	1
		HMASMTPA HMASMTPR	1	HMASMTPC HMASMTPS	. 1	HMASMTPD HMASMTP2	1	HMASMTPL HMASMTRM	1	HMASMTPO HMASMTR1	1
	99	HMASMTSB HMASMUPD	1	HMASMUC1 HMASMUPI	1.	HMASMUC2 HMASMXRF	.1	HMASMUC3 HMASMZAP	1	HMASMUC4	1
HMASMMCB	77	HMASMMPD	ī	HMASMMPE	1	HMASMMPH	1	HMASMMPI	1	HMASMMPV	1
	14	HMASMRCD HMASMTM2	1	HMASMREC HMASMTM3	1	HMASMTMD HMASMTM4	1	HMASMTMJ HMASMTPC	1	HMASMTM1	1
HMASMMCD HMASMMGP	12	HMASMCIL HMASMAAR	ļ	HMASMRCD HMASMALC	3	HMASMRCF	3	HMÁSMTCL	3	HMASMUC 2	2
nnasrmup		HMASMBUE	į	HMASMBUR	1	HMASMARL HMASMCIL	1	HMASMASI HMASMCOM	1	HMASMBDL HMASMCPI	1
		HMASMCPL HMASMDSU	1	HMASMDLE HMASMDS1	1	HMASMDRV HMASMEIS	1	HMASMDR1 HMASMGTA	1	HMASMDR2 HMASMIDU	1
		HMASMIO	ī	HMASMLKI	ī	HMASMLOG	1	HMASMMPD	ī	HMASMMPE	1
		HMASMMPH HMASMRCD	1	HMASMMPI HMASMRCF	ì	HMASMMPV HMASMRCL	ì	HMASMMSG HMASMRDS	1	HMASMRCC HMASMREC	1
		HMASMREJ HMASMTAI	1	HMASMSER HMASMTBL	1	HMASMSTĀ HMASMTCL	1	HMASMSUB HMASMTCR	1	HMASMTAD HMASMTDD	ī
		HMASMTD1	į	HMASMTL1	1	HMASMTL2	1	HMASMTMD	į	HMASMTMJ	1
		HMASMTMS HMASMTPA	1	HMASMTM1 HMASMTPC	1	HMASMTM2 HMASMTPL	1	HMASMTM3 HMASMTPO	ì	HMASMTM4 HMASMTPR	ì
		HMASMTP2 HMASMUC3	ī	HMASMTRM HMASMUC4	ī	HMASMTSB HMASMUPD	ī	HMASMUC1 HMASMUPI	ī	HMASMUC2 HMASMUXC	ī
	72	HMASMVLU	ī	HMASMZAP	1						
HMASMPMG		HMASMCIL	1	HMASMRCD	1	HMASMRCF	9	HMASMTAD	1	HMASMTAI	1

MACRO USAGE												
MACRO	TOTAL #	MODULE	#_	MODULE	#	MODULE	#_	MODULE	#_	MODULE	#	
HMASMPMG		HMASMTBL	2	HMASMTDD	4	HMASMTPA	14	HMASMTPC	3	HMASMTPL	7	
HMASMPRL	77	HMASMTPR HMASMAR1	7	HMASMTRM HMASMAR2	4	HMASMTSB HMASMAR3	5 1	HMASMUC2 HMASMAR4	18	HMASMASM	1	
III AGITIF RE		HMASMCPY	1	HMASMCRD	1	HMASMDRV		HMASMFPT	ī	HMASMFVL	ī	
		HMASMFXF	1	HMASMIO	1	HMASMLCC	1	HMASMLCD	1	HMASMLCP	ī	
		HMASMLID HMASMRCL	1	HMASMLKD HMASMREC	ì	HMASML OG HMASMTMD	1	HMASMMS G HMASMUC1	1	HMASMRCC HMASMUC2	1 1	
	28	HMASMUC3	i	HMASMUC4	1	HMASMZAP	1	HIMSHOCI	-	HMASHOCZ	-	
HMASMPRM		HMASMAAR	1 3	HMASMALC	1	HMASMARL	1	HMASMAR1	2	HMASMAR2	2	
		HMASMAR3 HMASMBUR	2 3	HMASMAR4 HMASMCIL	2	HMASMASI HMASMCOM	1	HMASMASM HMASMCPI	2	HMASMBUE HMASMCPL	2	
		HMASMCPY	2	HMASMCP2	1	HMASMCRD	î	HMASMCRW	ž	HMASMDC2		
		HMASMDLE	4	HMASMDRV	5	HMASMDRI	3	HMASMDR2	3	HMASMDSU	2	
		HMASMDS1 HMASMIO1	ì	HMASMFPT HMASMLCC	2	HMASMFVL HMASMLCD	1 2	HMASMFXF HMASMLCP	2	HMASMIDU HMASMLC1	1	
		HMASMLID	3	HMASMLKD	2	HMASMLKI	1	HMASMLOG	2	HMASMMPD	Ž	
		HMASMMPE HMASMRCC	2	HMASMMPH HMASMPCD	2	HMASMMPI HMASMRCF	2	HMASMMPV HMASMRCL	2	HMASMPGC HMASMREC	1	
		HMASMREJ	2	HMASMRJD	í	HMASMSEC	í	HMASMSER	2	HMASMSTA	2	
		HMASMSUB	1	HMASMSUP	1	HMASMTAD	2	HMASMTAI	2	HMASMTBL	5	
		HMASMTBM HMASMTEC	2	HMASMTCL HMASMTID	1	HMASMTCR HMASMTL1	2	HMASMTDD HMASMTL2	2	HMASMTD1 HMASMTL3	3	
		HMASMTMD	4	HMASMTMJ	5	HMASMTMS	2	HMASMTMW	i	HMASMTM1	ž	
		HMASMTM2	2	HMASMTM3	2	HMASMTM4	2	HMASMTPA	4	HMASMTPC	4	
		HMASMTPD	2	HMASMTPL HMASMTRM	4 5	HMASMTPO HMASMTR1	2	HMASMTP r HMASMTSB	4	HMASMTPS HMASMUCD	1	
		HMASMTP2 HMASMUC1	1	HMASMUC 2	2	HMASMUC3	•	HMASMUC4	ī	HMASMUPD	12122152632541221	
	217	HMASMUPI	į	HMASMUXC	1	HMASMVLU	ī	HMASMXRF	3	HMASMZAP	1	
HMASMRDP HMASMRIO	2 8	HMASMIO HMASMRCD	18	HMASMRDS	1							
HMASMSCP	•	HMASMASM	1	HMASMCPY	1	HMASMCRD	1	HMASMDRV	1	HMASMDSU	1	
		HMASMLCP	į	HMASMLKD	į	HMASMMPD	1	HMASMMPE	ļ	HMASMMPH	į	
		HMASMMPI HMASMUC1	1	HMASMMPV HMASMUC2	1	HMASMRCL HMASMUC3	1	HMASMREC HMASMUC4	1	HMASMSCN HMASMUPD	1	
	21	HMASMZAP	1						_			
HMASMSET		HMASMDLE HMASMTMJ	1	HMASMDRV HMASMTPA	1	HMASMLID HMASMTPL	1	HMASMREC HMASMTPR	1	HMASMREJ HMASMTRM	1	
	11	HMASMXRF	i	HITASITIFA	-	HHASHIPL	-	HHASHIPR	-	HUMSHIRM	-	
HMASMSPL		HMASMAAR	1 1 1	HMASMBUE	1	HMASMBUR	1	HMASMCIL	1	HMASMCPI	1	
		HMASMCPL HMASMRCC	1	HMASMDRV HMASMRCD	1	HMASMDS1 HMASMREC	ì	HMASMION HMASMPJD	1	HMASMLID HMASMSUB	1 1	
		HMASMTBL	1	HMASMTCL	ī	HMASMTL1	î	HMASMTMD	i	HMASMTMJ	ī	
UMAGMUVA	2]	HMASMXRF	ī	UMAGMBEG		UMAGMUNA		UMARMUVE				
HMASMUXP HMASMVLP	4	HMASMCRD HMASMCRW	i	HMASMREC HMASMIDU	1	HMASMUXC HMASMMPI	1	HMASMUXD HMASMMPV	1	HMASMREJ	1	
	10	HMASMSEC	1 1 1	HMASMSUP	ī	HMASMUC 2	ī	HMASMUC3	ī	HMASMVLU	1	
IECSDSL1 IEFJFCBN	1 2	HMASMALC HMASMALC	ļ	HMASMIO	1							
IEFTIOTI	í	HMASMALC	i	HIMSHITO	-							
IEFUCBOB	ī	HMASMALC	ī									
IEZIOB Ihadob	1 3	HMASMIO HMASMBDL	1	HMASMDRV	,	HMASMIO	1					
IHADCBDF	3	HMASMBDL	ī	HMASMDRV	ī	HMASMIO	î					
IHASDWA	1	HMASMSER	1									
IKJTCB Link	1	HMASMALC HMASMAAR	1 2 1	HMASMASI	1	HMASMCIL	1	HMASMCOM	1	HMASMCPI	1	
	10	HMASMLKI	ī	HMASMRCD	ī	HMASMUPI	ī	HMASMZAP	ī		-	
LOAD NOTE	2	HMASMUXC HMASMIO	2									
OBTAIN	i	HMASMALC	1 1 1									
OPEN	62	HMASMBDL	ī	HMASMIO	61							
POINT PUT	1	HMASMIO HMASMIO	1									
RDJFCB	ī	HMASMIO	ì									
READ	2	HMASMIO	2									
SCRATCH SGGBLPAK	1 2	HMASMALC SGAMA402	1	SGHMA402	1							
SGLEDPK1	ž	SGAMA402	1	SGHMA402	1							
SGLEDPK2 Stae	2	SGAMA402 HMASMSTA	ļ	SGHMA402	ī							
STAR	3	HMASMSTA	1 3									
SUBCASE	5	HMASMLOG	5									
SYNADAF Synadris	3 1	OIMSAMH	3									
TIME	Š	HMASMBUE	1	HMASMCPL	1	HMASMCRD	1	HMASMDSU	1	HMASMIO	1	
WAIT	1	HMASMMSG	ī		,	==	_		•		_	
WRITE WTO	1 3	HMASMIO HMASMMSG	1 3									
WTOR	ž	HMASMMSG	ž									

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