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## **Program Product**

## VSE/ICCF Handbook

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is is a major revision of and obsoletes LY33-9096-2. The manual is workled as a VSE/ICCF, Version 2 Release 1, serviceability aid and is a summary of other VSE/ICCF version 2 Release 1 documentation.

If there is any discrepancy between the information in this manual and the VSE/ICCF documentation, the latter is assumed to be correct.

Separate handbooks are available for related program products as follows:



VSE/AF handbook: LY33-9121-0 VSE/POWER handbook: LY33-9094-3

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VSE/ICCF COMMANDS

#### SYSTEM COMMANDS

\$ Command (see /RUN command)

/ASYNch

Allows interactive partition execution to continue while returning the terminal to command mode.

/ATten [data]

Requests communication with a program in an interactive partition.

data Data to be passed to the program.

/CANcel [ABort]

Terminates terminal activity. Valid in input, list and execution modes.

ABort Need only be specified for programs that use the /CANCEL command as an attention signal.

/COMpres [ON|OFF]

Controls whether multiple blanks are suppressed (ON) or not (OFF) in output displayed in list or execution mode.

/CONNect lib-no|OFF

Connects or disconnects a library. Valid in command mode.

/Continu [0ff|nn|1|6] (6 for 3270 only)

Sets continuous output mode on or off. Valid in list and execution modes.

nn

Length of pauses in seconds (1-15). The default for IBM 3270 terminals is 6, and 1 for all others.

/COUnt	[CONN COM] name
-	now how many records a VSE/ICCF library member consists in command mode only.
CONN	The connected library is searched for the specified member
COM	The common library is searched for the specified mem- ber
name	Specifies the name of the member (do not specify $\$ print, $\$ under the second state of the second stat
If neither	CONN nor COM is specified, your primary library will

be searched for the specified member.

[/]CTL Command (see [/]SET command)

/CP	command
/CTLP	

Allows the VSE/ICCF Administrator to display and alter the status of jobs submitted to VSE/POWER.

command A VSE/POWER command. See VSE/POWER Installation and Operations Reference, SH12-5329.

#### /DELete

Deletes the last line entered in input mode.

/DISPC [m [n]] [name [password]]
/Display

Displays the contents of the input area, or of a library member.

m|n First and last lines to be displayed. name Name of library member. DISPC displays data continuously. Both commands are valid in command and input mode.

/DQ [ALL[listaddr]HOLD|FREE|LOCAL|\*abc|RJE[remid]]
queue[ALL]jobname[jobnumber]|class|...]

Displays the contents of the VSE/POWER list, punch, reader and transmission queues.

queue VSE/POWER queue to be displayed: LST for list queue, PUN for punch queue, RDR for reader queue and XMT for transmit queue.

ALL Gives status of all jobs in the specified queue. If 'queue' is not specified, gives the status of all jobs FREE Gives status of all jobs in the specified queue available for processing (i.e. in KEEP or DISPATCHABLE state).

HOLD Gives status of all jobs in the specified queue that are not available for processing (i.e. in HOLD or LEAVE state).

jobclass Gives status of all jobs in the specified queue with the specified class: A to Z or O to n, where 'n' is the partition number (input jobclass only).

jobname 2 to 8 character job name by which the job is known to VSE/POWER.

- LOCAL Gives the status of all jobs in the specified queue that were submitted from, or routed to, your installation.
- \*abc Gives status of all jobs with a name starting with 'abc'. Up to seven alphameric characters can be specified, including '/' and '.'.

The operands of the /DQ command are the same as those for the VSE/POWER PDISPLAY command. The above is only a selection of the most frequently-used operands; a complete description of all operands is contained in VSE/POWER Installation and Operations Reference, SH12-5329.

#### [/]ECHO message

Writes the specified message back to the terminal in any mode.

/EDit name [password]

Allows editing of a library member, or of the input area. Valid in command mode.

name

Name of library member, which must already exist. The input area is default.

/END

Terminates the current input session.

#### /ENDRun

Terminates the current input session and runs the job that is in the input area.

/EP queue jobname[jobnumber][PWD=password] /ERASEP

Removes a job from a VSE/POWER queue.

queue	VSE/POWER queue in the format: reader (RDR), list
	(LST), punch (PUN) or transmission (XMT).
jobname	The 2 - 8 character name of the job.
jobnumber	The 1 - 5 digit job number assigned to the job by
	VSE/POWER.
password	The 1 to 8 alphanumeric password given to the
	VSE/POWER job when it was submitted.

/EXec name [password] [CLIST [param1 param2 ...]]

Executes a job.or procedure from the library and passes parameters to it. Valid in command mode.

name	Name of a member containing a job stream or a proce-
	dure. The job stream may also include data. 'Name'
	may also be the punch area (\$\$PUNCH).
CLIST	Indicates that the member 'name' contains a procedure
	which cannot be invoked implicitly.

/GRoup CReate name [password] [n] UNgroup name [password] REGroup name [password]

Creates, ungroups or regroups a generation member group. Valid in command mode.

n A decimal number from 2 to 10 indicating the number of entries to be created in the group. The default is 3. [/]HARdcpy devicename queuename ON OFF \* START d q

Places the IBM 3270 terminal into or out of hardcopy mode and directs terminal output to a hardcopy printer, or to a private destination queue. Valid in all modes except edit mode.

devicename Address of hardcopy printer.

queuename Private destination queue.

\* Sets continuous display mode (3275 only).

Note: Before attempting to enter commands, press the CLEAR key to enter command mode.

./INPut [PRompt|NOprompt [INClude|OFF|nn]]

Switches the terminal from command to input mode and places all input (except system commands) in the input area. Valid in command mode.

PRompt   NOprompt	Controls line prompting. 'NOprompt' and 'OFF'
	both eliminate any type of prompting, even if
	your user profile indicates automatic prompting.
INClude	Inserts the prompt number into the line being
	entered.
nn	Prompt increment (1-32767).

/INSert name [password] [m [n]]

Copies all or part of a library member, or of the print, punch or log area, into the input area. Valid in input mode.

name Name of library member. \$\$PUNCH, \$\$PRINT and \$\$LOG may also be specified.

m|n Starting and ending lines of the data to be inserted. If 'm' is not specified, 1 is assumed. If 'n' is not specified, end-of-file is assumed.

[/]LIBra /LIBC	ary [CONn COMmon] [FULL *xxx [ALL]]	
Displays the names of members within your main library, in any connected library, or in the common library.		
FULL	Displays one line of information for each library member that your have created.	
ALL	Displays one line of information for all members, re- gardless of who created them.	
xxx	Displays one line of information for all members that you have created whose names begin with the characters 'xxx' (up to 7 characters).	
/LIBC	Displays the above information in continuous display mode. (The /CONTINU command is not required).	
/List /LISTC	[* m [n]] [name [password]]	

/LISTX

Displays the contents of the input, print, punch or log area, or of a library member. Valid in command and input modes.

name	Name of the library member. \$\$PRINT, \$\$PUNCH or \$\$LOG
	may also be specified. The input area is default.
m n	First and last lines of the data to be displayed. If
	'm' is omitted, 1 is assumed. If 'n' is omitted,
	end-of-file is assumed.
*	Displays the last ten lines from your current posi-
	tion.
LISTC	Displays the data in continuous display mode.
LISTX	Displays both hexadecimal and character data.

/LISTP jobname[jobnumber][jobclass][PWD=password] /LP

Displays print output from a job submitted to VSE/POWER. Valid in command mode.

- jobname Name of a job submitted to VSE/POWER whose output is in the VSE/POWER list queue. If omitted, this name is assumed to be the 8 character name formed by the user-id and the terminal-id.
- jobnumber The 1-5 digit job number assigned to the job by VSE/POWER.

jobclass A single alphabetic character specifying the output class associated with the job. Only needed for jobs with non-standard output classes.

password The 1 to 8 character alphanumeric password assigned to the VSE/POWER list output.

The following commands may be used during the display: /SKIP, /LOCP, /CONTINU, /HARDCPY and /CANCEL.

/LOCP string//string/

Locates the specified character string in a  $\ensuremath{\mathsf{VSE}}\xspace/\ensuremath{\mathsf{POWER}}\xspace$  list output file.

/LOGOFF

Ends a terminal session and causes all accounting statistics to be updated. Valid in input and  $com \overline{m}$  and mode.

/LOGON userid

Starts a terminal session. Valid only after 'ICCF' has been entered.

userid A four character user identification.

#### /MAil

Displays messages from either the system operator or the ICCF administrator at your terminal. Valid in command mode.

#### [/]MSG

Displays messages that arrive at your user-id while the terminal is set to non-automatic mode (see /SET MSGAUTO). /MSG is valid in command and execution mode. MSG is valid in edit mode.

/PASswrd new password

Specifies a new password. Valid in command mode.

New password A three to six character word, used as logon password.

/PFnn	[data]	
Invokes the function that has been associated with this key in the currently valid PF key set.		
nn	Number of PF key with which the function is to be as- sociated.	
data	Characters or variable to be appended to the PF func- tion.	
/PROmp	t [OFF   INClude   nn ]	
Turns line number prompting on or off. Valid in input mode.		
INClude nn Starts inclusion prompting with an increment of 'nn' (maximum 32767). The increments appear in columns 1 to 5 of the input data.		
/PROTect name [oldpass] PRIV PUBL		
	DATE FLAG OFFL	
	USER newid	
	newpass	

CPRS UPIP

UPIP NOPASS

Controls attributes for the specified member name. Valid in command mode.

PRIV PUBL	Indicates that the member is to be saved as private
	(PRIV) or public (PUBL) data.
DATE	Replaces the date of entry with the current date.
FLAG OFFL	Sets automatic flagging on or off.
USER newid	Sets a new four character user-id.
newpass	Applies a new password to a member.
CPRS	Sets the compress attribute on.
UPIP	Sets update-in-progress indicator off (VSE/ICCF ad-
	ministrator only).
NOPASS	Removes a password from a member.

/PURge name [password]

Removes a member from a library. Valid in command mode.

/RENAMe oldname newname [password]

Changes the name of a library member. Valid in command mode.

/RENUM Command (see /RESEQ Command)

[/]REPlace name [password] [m [n]] [PRIV|PUBL]

Replaces a library member with the data in the input area. Valid in command and input mode. Without a slash (/), also valid during editing in the input area.

m|n First and last lines of the data in the input area that are to be moved to the library member.

PRIV|PUBL Indicates that the member is to be saved as private (PRIV) or public (PUBL) data.

/RESeq name [password] [incr|100 [col|73 [n|8 [strt]]]]
/RENUM

Applies sequence numbers to a library member, or re-sequences existing ones. Valid in command mode.

incr	The re-sequencing increment. The maximum is 9999 and
	the default is 100.
col	Start of sequence field. The default is 73.
n	Size of sequence field. The default is 8, and maximum
	16.
strt	Beginning sequence number (the default is 'incr').

/RETriev [OFF]

Places a previously entered command in the terminal input area.

OFF Terminates the retrieve function and clears the internal stack of previously entered commands.

#### /RETURN

Only valid if you entered VSE/ICCF through the interactive interface of VSE/SP. The command brings you back to that interface.

/ROUTEI	queue jobname [jobnumber][class][REM=remid]
/RP	[PWD=password]
Routes a j	ob from a VSE/POWER list or punch queue to a printer
or punch,	or to a remote terminal ID. Valid in command mode.
jobname	The 2-8 character name of the job to be routed.
jobnumber	The 1-5 digit job number given to the job by VSE/POWER.
REMID=	Remote identification code number (1 to 200).
password	The 1-8 alphanumeric password given to the VSE/POWER
	job when it was submitted.
/RUN	[phasename [data]]
\$	

Loads a phase from the VSE core image library and executes it. Valid in command mode.

phasename	If no phase name is specified, executes the job in the
	input area.
data	The first and only data statement passed to the phase
	being loaded; consists of 1-72 columns of data.
\$	The abbreviated form of the $/\ensuremath{\mathrm{RUN}}$ command. No space
	is required before the phase name. Note, however,
	that '\$' destroys the contents of the input area.

```
[/]SAve
            name [password] [m [n]] [PRIV|PUBL]
```

Saves, all or part of the input area in the library. Valid in command and input mode.

name	Name of the library member in which the data is to be
	saved.
pass	The four character password required only if the mem-
	ber is to be password protected.
mn	First and last lines of the data to be saved (1-9999).
	For 'm', the default is one line. For 'n', the last
	line in the input area is default.
PRIV PUBL	Indicates that the member is to be saved as private
	(PRIV) or public (PUBL) data.

/SENd {userid|COPER|ALL} message text

Sends a message to the system operator or to another ICCF terminal user. Valid in command and execution mode.



userid
 Sends the message to terminal user 'userid'.
 COPER
 Sends the message to the system (console) operator.
 ALL
 Sends the message to all terminal users (should be used only by the VSE/ICCF administrator).

#### SET CONTROL CHARACTERS

[/]SET [/]CTL	BS=char DEL=char	logical backspace character line delete character
	END=char	(ignore input line) logical line end character
		(to enter several commands and/or data lines in one line)
	ESC=char	escape character (the following character is not
		treated as a control character)
	HEX=char	hexadecimal entry character (the following hex-value is treated as single EBCDIC character)
	TAB=char	logical tab character

'char' specified as 'OFF' resets the previous /SET command

SET ICCF FEATURES ON OR OFF

[/]SET	BYPass [ON OFF]
[/]CTL	COMlib
	DATan1
	EXTab
	IMPex
	MSGauto
	VERifv

Initial settings:

BYP=OFF	ON causes control characters to be treated as data.
COM=ON	OFF excludes common library from directory lookups.
DAT=OFF	${\rm ON}\ {\rm scans}\ {\rm in-}\ {\rm and}\ {\rm output}\ {\rm data}\ {\rm for}\ {\rm special}\ ({\rm e.g.}\ {\rm APL}\ {\rm or}\ {\rm or}\ {\rm oth}\ {$
	TEXT) characters.
EXT=OFF	$\ensuremath{ON}$ enables tabbing for conversational reads during
	execution.
IMP=ON	Allows a procedure to be invoked as if it were a $\operatorname{com}\nolimits$
	mand.
MSGauto	Is defined in the profile; OFF indicates that received
	messages are to be stored in the MSG member.

VER=ON For local 3270 terminals; OFF for all others. 'VER-IFY' displays the last 10 input lines on 3270 terminals. On non-3270 terminals, the last input line is repeated.

#### SET SYSTEM CONTROL FEATURES

[/]SET	BUFfer [bufsiz  <u>REset OFF]</u>
[/]CTL	CAse OFF REset
	CAse INput [ <u>UPper</u>   <u>REset</u>  MIxed]
	CAse [INput] UPper   REset   MIxed
	CAse OUTPUT [UPper MIxed REset
	[ <u>NOct1</u>   <u>REset</u>   CTL ] ]
	CLAss class[ <u>WAIT</u>  NOWait] REset OFF WAIT NOWait
	DELAY [TIme time STop BYpass  <u>REset OFF</u> ]
	LINesize lnsize
	LOG [OFF ON nnn [INPut OUTput INOut]]
	PF PFLS PFED PFEX CLear ON OFF SAVE RESTORE
	PFnn PFnnLS PFnnED PFnnEX function CLear OFF
BUFFER	allows you to control the size of your print buffe: area.
CASE	allows you to vary the character translation performed
	during terminal input or output.
CLASS	allows you to set your interactive partition schedul
	ing class.
DELAY	Enables you to delay the execution of commands or
	lines of input.
LINESIZE	Is used to vary the line length used for list mod
	display functions.
LOG	Allows you to set or vary the terminal logging facil
	ity.
PF/PFnn	Allows you to manipulate the program function ke
	settings.

#### SET 3270 SCREEN FEATURES

[/]SET	SCReen	REset OFF
[/]CTL		ERase NOERase
		ALarm NOALarm
		CLear
		i [d1 [d2 [c1 [c2]]]]
		COlumn c1[c2]  <u>REset</u>
		ROw r1[r2] REset

This form of the [/]SET command is used either to set the screen image, or to set screen oriented features ON or OFF.

REset|OFF Sets the feature to a default.

NOERase	Causes only lines receiving new data to be erased be-
	fore data is written to the screen.
ALarm	Sets an audible alarm, which sounds whenever something
	is written to the screen.
CLear	Clears the active output area of the screen.
i	Number of lines for the input area (1-4).
d1	Starting physical line number of the output areas
	(3-39).
d2	number of lines in the display areas (5-41).
c1	First column of the output area (1-80).
c2	Last column of the output area (1-132)
r1	First row (1-37) of terminal output on the screen.
r2	Last row (5-41) of terminal output on the screenof

/SETIme [EXEC] m [n] TIMEOUT t

Alters any of the three time factors which may affect terminal activity or interactive partition execution.

- EXEC m|n 'm' is the number of execution units that a job can use before being cancelled (0-32767). 'n' is the total time in seconds (0-65535) that a job can occupy an interactive partition.
- TIMEOUT t Total time in seconds (60-3600) allowed between instances of terminal activity before logoff is forced.

[/]SHow	BS	Backspace character
/]STatus	BUFfer	Size of the print area
	BYPass	Control character bypass
	CASe	Input/output translation
	CHar	Any control character
	CLAss	Your execution class
	COM1ib	Common library search
	CTL	Any control character
	DATAnl	Data analysis feature
	DAte	Date and time
	DEL	Delete character
	DELAy	Multi-command input delay
	END	Logical line end character
	ESC	Escape character
	EXec	Status of current execution
		in an interactive partition
	HEX	Hex control character
	IMPex	Implied execute
	LIMit	Various time limits
	LIBrary	Current/connected libraries
	LINesize	Line width
	LOG	Type of terminal logging
	MOde	Current terminal mode
	MSG	Message mode
	PF[ED][EX][LS]	PF keys in CM, ED, EX
		and LS/SP mode
	PFnn [ED] [EX] [LS]	PFnn key in CM, ED, EX
		and LS/SP mode
	PF SAVE	Content of PF-key save area
	PSize	Default partition size
	SCreen	Screen attributes
	TABChr	Tab character
	TABs	Tab location
	TErmid	Your terminal id
	TIme	Various time limits
	USer	Your four character id
	VERify	Input verify
	XLate	Input/output translation

The [/]SHOW command displays the current setting of options, features and parameters affecting your terminal. The '/SHOW' format is effective in any mode except edit mode; the 'SHOW' format is effective only in edit mode.

/SKip [m|-m|S+n|S-n|P+k|P-k|NExt|PRevious|CUrrent| TOP|BOTtom|END]

Moves the display forward or backward within the data being viewed. Valid in execution or list mode (/LIST or /LISTP) and only during display or print operations.

- m|n Number of lines (0-99999) that the display is to be moved forward or, with '-', backwards from the last line displayed (m=0 is default).
  - S For a 3270 terminal, causing the move to start from the top of the current screen.
  - P The number of execution mode printer pages to be skipped during a display to the terminal (skips to carriage channel 1, or top of form). '-k' causes backward skipping.

NExt/PRev Causes a scroll forward or backward by one screen. CUrrent Causes a (re)display of the current page.

TOP Positions the display to the top of the file.

BOTtom|END Advances the print or display operation to the end of the current area. Press ENTER to complete the command and return to command mode.

/SQueeze name [password] [SAVEIN] [LOWER]

Converts a library member from display format to compressed format. Valid in command mode.

- SAVEIN Saves the version of the member displayed on your screen in the input area.
- LOWER Applies to a member that contains more lower than upper case characters.

/STATUS Command (see /SHOW Command)

/STATUSP jobname [jobnumber] /SP

Displays the status of jobs submitted to VSE/POWER for execution in a VSE batch partition, or for transmission to another node. Valid in command mode.

jobname The 2 to 8 character name of the VSE/POWER job whose status is to be displayed.

jobnumber The 1 to 5 digit number assigned to the job by VSE/POWER. Status is displayed in the form: '\*STATUS=xy - job status': x = N job not located R job is in reader queue L job is in list queue P job is in list queue X job is in transmission queue y = \* job is still running. Otherwise, this is the disposition of the output of the job. NOT FOUND - job is not known to VSE/POWER COMPLETED - job has finished execution EXECUTING - job is still running AWAITING EXEC - job is awaiting execution

/SUMry name [password]

Displays all lines in the member beginning with a slash (/) and gives the total of all other lines. Valid in command mode.

#### /SWitch lib-no|LIBs|RESet|OFF

Switches to another library, which becomes the new current primary library. Valid in command mode.

lib-no	library identification number of library to be
	switched to.
LIBs	Exchanges the connected secondary library with the
	primary library.
RESet   OFF	Returns to the library configuration in the user pro-
	file.

#### /SYNch

Re-synchronizes the terminal to a job running in an interactive partition (see /ASYNCH command). Valid in command mode.

#### [/]TABset n1...nm|language|OFF|CLEAR

Establishes your own internal or logical tab settings for a line. Valid in input and command mode.

n1...nm Column positions for tab settings. language The programming language being used. OFF|CLEAR Clears all tabbing.

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The command may be followed by from 1 to 11 one-or-two digit numbers, which may not exceed the value of 80. Keywords for preset values are:

 ASsembler
 10, 16, 36, 72, 73

 BASic
 10, 20, 30, 40, 50, 60

 COBol
 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 73

 FORtran
 7, 73

 PL1 or PLI
 5, 10, 15, 20, 25, 30, 35, 40, 45, 50

 RP6
 6, 20, 30, 40, 50, 60

 TENS
 10, 20, 30, 40, 50, 60, 70

/Time

Displays the current date and time and the number of background execution units used. Valid in command and execution mode.

/USers [PROfile|STAts|LIBrary]

Displays the total number of terminal users and the number of users currently logged on. Valid in all modes except edit mode.

 PROfile
 Displays various fields in your user profile.

 STATs
 Displays statistics fields in your user profile.

 LIBrary
 Displays the libraries to which you have access.

### EDITOR COMMANDS

(\*\* indicates commands which are different for Full Screen and Context Editor)

Add string/string/

Inserts the specified string of characters behind the last non-blank character in the zone area of the current line.

ALIgn [INdent]

Aligns text to the left and right hand margins of one or more lines of text. The margins are determined by the current ZONE setting or by a the column suffix (Cnn).

INdent Suppresses left justification.

ALter char1 char2 [n|\*|1] [G] [S|0]

Changes one character to another, or references a character by its hexadecimal value.

char	Charl is the character to be changed; char2 is the new
	character.
n	Number of lines to be searched (maximum 99999). An
	asterisk causes all lines in the file beginning with
	the current line to be searched.
G	Changes every occurrence of 'char1'.
s	Records changes in the stack area without opening it.
0	Opens the stack area and records changes in it.

BAckward [nn 1]

Scrolls the display back the specified number of screens. As a context editor command, scrolls the display back the specified number of lines.

 $\frac{1}{2}$ 

#### BLank mask

Replaces non-blank characters in a mask with blanks. Blanks are generated with the tab key, with logical tab characters, or with the column suffix (Cnn).

#### Bottom

Positions the pointer past the last line of the file.

BRIEF Command (see VERIFY Command)

CANcel

Terminates the full screen editor and returns the terminal to command mode.

CAse [M|U]

Temporarily overrides the system input translation currently in effect.

М	Allows the editor to accept both upper and lower case
	input.
U	Returns to normal upper case translation

CENter [INdent]

Centers data within the zone determined by the ZONE command or the column suffix (Cnn).

INdent Includes leading blanks.

Change [/string1/string2/ [n|\*]1] [G] [S|0]

\*\*

Changes one string of characters to another. Other operands are the same as for the ALTER command. Context editor: if entered without operands, the current line is placed in the input area where it can be modified.

CTL Command (see [/]SET Command)

<pre>JRsor CURrent INPut LINe [nn]]] TABBack [tt] TABForward [tt]</pre>
LINe [nn] <u>1</u> ] TABBack [tt] TABForward [tt] 11 screen editor command that sets the cursor to a particula:
TABBack [tt] TABForward [tt] 11 screen editor command that sets the cursor to a particula:
TABForward [tt]
ll screen editor command that sets the cursor to a particula
tion on the screen.
ent Advances the cursor to the first position of the cur
rent line
Advances the cursor to the next Type I or Type I
command area on the screen.
Advances the cursor 'nn' lines to position 1 of the
next line.
ack Retards the cursor 'tt' columns. prward Advances the cursor 'tt' columns.
Srward Advances the cursor tt columns.
Lete [n * 1 /string/]
Number of lines to be deleted (1-99999). Deletes all lines to end-of-file. ng Marks the end of the area of the file to be deleted Delimiters (/) must be used.
LIM char
ges the default delimiter (/) to another none alphabetic numeric character.
Command (see NEXT Command)
JP [n  <u>1</u> ]
icates the current line $'n'$ times (1-100)
Command (see [/] ECHO System Command)
Command (see [/] ECHO System Command)

#### ENTer name [password]

Allows you to edit another library member while in full screen edit mode.

name An existing member, or a newly created file. The input area is the default.

FILe \*\* [name [password] [PRIV [PUBL]]

Saves the file as a library member and quits the full screen editor. To save a file using the context editor, see the /SAVE system command syntax.

name Name of the library member in which the data is to be saved.
pass The four character password required only if the mem-

ber is to be password protected. PRIV|PUBL Specifies that the member is to be saved as either

private or public. The default will be the specification in your profile.

Find string

Compares the non-blank characters in 'string' with each line in the file until the specified string is found or end of file is reached.

#### FLag [ON|OFF]

Each change to a file will be indicated in columns 73-80 (default) of the changed record. The OFF operand is to be issued by the VSE/ICCF administrator only.

FORMat [\*]m-n [\*]m-n ... [\*]m[-n]

A full screen editor command that divides a logical screen into separate areas and specifies how those areas are to appear.

- m Number of lines per logical record (1, 2 or 3)
- n Number of logical records per format area (2 or more).
- \* Suppresses the Type III command areas.

#### FOrward [nn | 1]

As a full screen editor command, scrolls the display forward the specified number of pages. As a context editor command, scrolls the display forward the specified number of lines.

GETfile name |\* [password] [first | 1 [num | \*]]

Inserts all or a portion of a library member or a special area into the file being edited.

name	Name of library member to be inserted. May also be
	\$\$STACK, \$\$PUNCH, \$\$PRINT or \$\$LOG.
first	First line of the data to be inserted (default is the
	entire file).
num	Number of lines to be inserted, beginning with the
	line indicated by 'first'. The default (also if '*'
	is omitted) is the remainder of the file.

HARdcpy Command (see [/]HARdcpy System Command)

IMage [ON OFF]
----------------

This context editor command controls, how backspace and tab characters are treated within commands or input data. Displays current IMAGE setting if no operand is specified.

OFF Causes backspaces or tabs to be treated as ordinary data.

INDex [nn | 100]

Inserts entries at specified intervals ('nn' lines) into the file to which the line pointer can be moved using the POINT command.

#### INPut

Switches the terminal from edit to input sub-mode, so that all input (including editing commands) is treated as data.

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#### Insert [string|/string/]

Inserts a new line ('string') into the file without entering input sub-mode. Can be used with the column suffix (Cnn). Without operands same as INPUT command in full screen editor. In context editor invalid without operands.

\*\*

#### JUStify [Left|Right]

Justifies data to the left or right hand margin as determined by the current zone setting, or the column suffix (Cnn).

LAdd [nn 1]

Add the specified number of blank lines to the file (full screen editor only).

LEft [nn|1]

A full screen editor command that shifts the displayed data 'nn' columns to the left of a logical screen.

LIBRARY Command (see [/]LIBRARY System Command)

LINemode [n1 [n2]8]] [Left[Right] [Off]

Sets line mode editing on or off.

n1|n2 Sets the length of the line mode sequence number. 'n1' is 1-80 and 'n2' is 1-8.

Right|Left The Left field starts in column 1 and is 5 columns long; the Right column starts in column 73 and is 8 columns long.

Locate	string /string/
LOCUp	
LUp	
LOCNot	
LN	

Locate searches for the specified string moving forward through the file. LOCup searches backward from the current line. LOCNot searches for the first non-occurrence of 'string'. May be used with the column suffix (Cnn).

MSG Command (see /MSG System Command)

Next [n|1] DOwn FOrward

Advances the pointer in the file by 'n' lines.

Overlay string OVERLAYX OX

Overlays non-blank characters in a file with the specified characters. May be used with the column suffix (Cnn).

OVERLAYX Inserts hexadecimal characters by specifying two hexadecimal digits in the string for each column to be replaced.

PF command (see PRINT command)

#### PFnn

Invokes the function that has been associated with this PF key in the currently valid PF key set.

POint nn | Snn | Pnn

Sets the current line pointer to a given area of the file based on an index built by the INDEX command.

Snn Sequence number of the line.
Pnn Decimal number from 1 to 32 that sets the line pointer
to the first record of an index table page.

Print	[HEX]	[n1 *  <u>1</u>	[n2 *  <u>72</u> ]]
TYpe		\$\$LOG	
PRINTFwd		\$\$STACK	
PF		\$\$PRINT	
	[S]		

Displays lines from a file starting with the current line, or displays the whole file if no number is specified. The PRINTFWD form of the command (short form 'PF') advances the line pointer during display.

HEX	Displays data in both hexadecimal and character for-
	mat.
nl	Number of lines to be displayed. The default is one
	full screen for the IBM 3270 and one line for the IBM
	2740. If ' $\star^\prime$ is specified, the remainder of the file
	will be displayed.
n2	The last column of each line to be displayed. The de-
	fault is the line size that was valid when the editor
	was entered. If '*' is specified, all 80 columns will
	be displayed.
\$\$LOG	Displays the log area.
\$\$STACK	Displays the stack area.
\$\$PRINT	Displays the last print buffer from the last exe-
	cution.
S	Displayes a scale line.

PROmpt [nn | 10]

Sets the prompt increment from its default of 10 to a user specified value during line mode editing.

Quit END

Terminates editing for the associated file.

RENum [incr|100[scol|73[n|8[strt|incr]]]]

Re-sequences or renumbers the file being edited.

1 9999).
r

- scol Start of the sequence number field.
- n Length of the sequence number field (maximum 16).
- strt Starting sequence number (maximum 9999). The default value is the sequence increment.

REPEAT [n|\*|1] RPT

Executes the ALIGN, BLANK, CENTER, JUSTIFY, OVERLAY or SHIFT command  $\ensuremath{\mathsf{'n'}}$  times.

 Causes the specified operation to be continued to the end of file, or to a maximum repetitions of 9999.

#### REPlace name[password][PRIV|PUBL]

Replaces a library member with the contents of the input area or with a newly created file (see ENTER command). The name of a print member must end in '.P'. For context editor: see [/]REPLACE system command.

#### REStore

Restores the editor settings which were in effect when the last STACK EDIT command was issued.

Rewrite string / string /

This context editor command replaces the current line with the specified string.

Right [nn 1]

A full screen editor command that shifts the displayed data 'nn' columns to the right of a logical screen.

#### SAVE [name [password] [PRIV[PUBL]]

Saves a newly created file or the input area as a new library member. A member newly created with the ENTER command can be saved under 'name', or under the name specified in the ENTER command (SAVE without operands). The name of a print member must end in '.P'. For the context editor see [/]SAVE System Command.

SCReen [nn [nn [nn ...]]]

A full screen editor command that specifies the number and size of logical screens to be created within the physical screen.

nn Number of lines per logical screen.

Search string/string/

Scans each record of a file (as defined by the 'Cnn' suffix or ZONE setting) from the beginning through the end-of-file for the specified character string.

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	-		

SET

# SET AUTOinsrt [ON|OFF] CTL

AUTOINSERT ON causes any data processed by the editor which is not an editor command to be processed as an INSERT command.

NUL1S [<u>ON</u>|OFF] NUMbers PFC REPoption

Sets functions of the full screen editor environment on or off.

NULLS ON Suppresses trailing blanks before data is displayed. NUMbers ON Sets line numbering on in the Type III area.

PFC ON Sets program function control on, which causes data associated with a program function key to be treated as a command.

PFC OFF Causes data to be treated as data if the cursor is not in the Type I or II command area

REP ON Causes checking for logical tab characters to be bypassed (they are treated as characters).

SHIft [Left|Right [nn|1]]

Shifts the data within the current zone to the left or right the specified number of columns. Can be used with the column suffix (Cnn).

#### SHow NAMes

Displays the names of the files currently being edited with the full screen editor. (see also [/]SHOW System Command)

SPlit /string/|nn

Splits the current line into two lines. The division occurs before the specified string, or before the the specified column.

STACk	OPEN   CLOSE
	BACK [mm]
	EDIT
	/string/
	nn · · ·
	0
	data
tores lin	es in the stack area.
OPEN   CLOSE	Opens or closes the stack area.
BACK	Deletes lines from the stack area by moving the
	pointer back.
mm	Number of lines to be stored. The default is 1 (0 adds
	a blank line).
EDIT	Adds records to the stack area containing editor set-
	tings from the CASE, DELIM, FLAG, IMAGE, LINEMODE,
	TABSET, VERIFY, ZONE and SET commands. The settings
	can be restored using the RESTORE command.
lata	Allows commands or data to be stored in the stack area.
STATUS Con	mmand (see [/]SHOW System Command)
TABSET Con	mand(see [/]TABSET System Command)

Repositions the pointer to the top of the file (null line in front of the first line in the file).

TYPE Command (see PRINT Command)

Up n|<u>1</u> BAckward

Repositions the pointer 'n' lines before the current line.

Verify	OFF	
BRief		
Verify	[ <u>ON</u> ]	[n1   <u>72</u> ]
	LONG	$[n1 \underline{72}[n2 \underline{20}[n3 \underline{7}]]]$
	FULL	[n4] <u>1</u> ]

A context editor command that controls what is displayed at your terminal during editing.

strate

OFF Causes changed lines not to be displayed.
BRief Same as VERIFY OFF
LONG Causes 'n1' columns and 'n2' number of lines to be displayed. The number of lines to be displayed before the current line is 'n3'.
FULL Invokes the full screen editor. 'n4' indicates the number of lines before and including the current line to be displayed (1 - 16).

Verify [FULL] [n1 [n2]]

A full screen editor command that is mainly used to vary the settings of: (1) the number of lines displayed prior to the current line, and (2) the number of physical lines associated with the command area.

FULL Optional, only to retain format compatibility with context editor VERIFY command.
n1 Number of lines to be displayed prior to and including the current line.
n2 Number of lines (max. 4) to be associated with the command area.

VIEW [[H]m n][,[H]m n][,[H]m n] ...

A full screen editor command that is used to re-arrange and format the 80 character records on the screen.

Н	Displays the data in hexadecimal format.
m n	First and last columns of data to be viewed or refor-
	matted. If 'm' is zero, 'n' blanks will be inserted.

Zone [n1|\*|1[n2|\*|72|80]]

Restricts the effect of commands to a specified zone. The values remain in effect until reset with another ZONE command, or are overridden by a column suffix (Cnn).

n1|n2 Start and end of the specified zone. Column 1 is the default (or if ' $\div$ ' is specified) for 'n1', and column 72 or 80 (depends on installation option EDEND=) for 'n2'.

ť.

'nnnnn' [line]

Adds, replaces or locates lines by sequence number during line mode editing.

nnnnn Decimal number from 0 to 99999999 representing a line number in the file.



A[nn] ADD

Adds the specified number (nn) of blank lines to the file. The maximum is 999.

#### C[nn] COPY

Copies the specified number (nn) of lines to the stack area. These lines can later be inserted elsewhere in the same file, or in another file, with the 'I' command).

#### D[nn] DELETE

Deletes the specified number (nn) of lines following the line where the command is given. One line is default.

#### I INSERT

Inserts the lines indicated by either the COPY or MOVE command after the present line.

#### K[nn] STACK or DATA COLLECT

Copies the specified number (nn) of lines (1 to 99) to the stack area.

Note: This command does not open the stack area. The lines are placed behind the data that is already there.

#### M[nn] MOVE

Moves the specified number (nn) of lines to the stack area. The lines thus moved to the stack area can be inserted into another area of the same file, or into another file, with the 'I' command.

/ SET LINE POINTER

Sets the line pointer to the present line.

"[nn] DUPLICATE

Duplicates a line a specified number of times.

```
>[nn[,mm]] SHIFT RIGHT
<[nn[,mm]] SHIFT LEFT</pre>
```

Shifts lines right or left a specified number of columns, beginning with the present line.

TA[nn] TEXT ALIGN

Aligns (justifies) the specified number (nn) of lines right and left, beginning with the present line.

TC[nn] TEXT CENTER

Centers the specified number (nn) of lines, beginning with the present line.

TL[nn]	TEXT	LEFT .	JUSTIFY
TR[nn]	TEXT	RIGHT	JUSTIFY

Justifies the specified number (nn) of lines left or right, beginning with the present lines.

TS[nn] TEXT SPLIT

Splits the present line into two lines at the specified column.

JOB ENTRY STATEMENTS

/ASSGN SYSnnn REAder | PUNch | PRInter | LOG | PUNCHIN | IGN | UA

Alters the standard assignments for unit record devices used within programs in interactive partitions.

#### /COMment

Allows comments to be placed among job entry statements so that they are ignored during job stream processing.

/DATA [INCon|NOIncon]

Separates input to a compiler from job stream data statements which the compiled program expects to read.

INCon Specifies that the program will ask for input conver-NOIncon sationally from the terminal. Restores input processing to SYSIPT or the card reader.

/FILE param1 [param2 ... paramn]

Provides disk file information for jobs in interactive partitions in form of keyword operands and parameter. File Statement Operands and Parameters:

BLKsize=n	Specifies the blocksize for 3350 and 3330
	Model 11 SAM files. If omitted, the
	blocksize value in the DTF is used.
BUFfer=bufsize	Dynamically allocates storage for I/O areas (VSAM only);
CATalog≃catname	VSAM catalog (NAME=) containing file entry;
CISize=cinv	Specifies the control interval size for a SAM
	file on an FBA device. The control interval
	size must be a multiple of the physical

blocksize of the FBA device. May be specified only in conjunction with TYPE=SEQ.

- CYL=YES The number of tracks requested for dynamically allocated disk space is to begin and end on a full cylinder.
- DATe=expinf Expiry date(VSE files and dynamically allocated DISP=KEEP files). Must be specified for date protection;
- DISp= Delete Release dynamically allocated files at end of job step. Delete is the default.
  - [Pass] Retain (pass) dynamically allocated files from step to step and release at end of job;
  - [Keep] Keep permanent file (until scratched or cold started);
- LOC=start,len 'start' is first track or block (FBA) number of file. 'len' is number of tracks or blocks in the file area (VSE file only);
- MAXR=nnnnn Specifies the maximum number of records <u>9999</u> (1-9999) to be contained in the target ICCF library member (9999 is default).
- NAMe=filename 1 7 character name of file in program (for VSE/ICCF files, the existing member of the library);
- PASsword=password Four character password of password protected VSE/ICCF files;
- RETAIN=JOB Specifies whether the /FILE specification <u>STEP</u> JOB will be effective during the current job step or until end-of-job. STEP is the default. (Applies only to TYPE=ICCF punch or print files).
- SERial=serno A six character volume serial number for VSE input and output files;

SPAce=ntrks Dynamic disk space allocation request;

TYPe=Direct	For normal VSE files and for dynamically
Seq	allocated file space, this operand
Vsam	specifies the file access type (DIRECT,
Iccf	SEQUENTIAL, VSE/VSAM).
UNIT=sysno	'SYS' number to be associated with the file.

VOLume=n Distribution value (0-9) for temporary space request (dynamically allocated files only) over multiple lines.

#### /FORCE

Directs print lines from the print area to the terminal whenever print activity occurs without waiting for end-of-job, or until the print area is full.

/INCLUDE name [password][ICCFSLI]

Logically groups library members and/or the contents of work areas into a single source of input.

name Name of the library member to be included. \$\$PUNCH, \$\$PRINT and \$\$LOG may also be specified.

password To be specified if the member being included is password protected.

ICCFSLI Causes the /INCLUDE statement to be transformed into the VSE/POWER JECL statement \*\$\$\$LI for a job stream that is submitted to VSE/POWER.

/LOAD phasename[,PARM='value']

Loads and executes a language compiler (or assembler), utility or other program.

phasename Any 1 - 8 character name representing an entry in the VSE core image library.

PARM= Allows a parameter of up to 100 characters to be specified.

/OPTion option1 [option2 ... option n]

Alter the standard setting of certain job processing options.

NOALIGN Used by the assembler to control whether or not

AT TON halfword, fullword and doubleword constants and storage areas are to be aligned on their appropriate boundaries.

Places an object program in the punch area from which DECK NODECK it may be read in and executed by LINKNGO. NODECK causes faster compilation but execution will not be possible.

- NOEDECK Causes the assembler to produce edited macro decks EDECK for any macros included in the assembly and place these decks in the punch area.
- NOLIST Determines whether some compilers will produce a LIST listing of the input source program on SYSLST (that is, at the terminal). NOLIST is the default for all compilers.
- NOLISTX Determines whether some compilers will list the LISTX object program in hexadecimal format at the terminal (not used by the assembler or RPG II);
- SUBLIB=AE Controls how the assembler accesses source statement DF sub-libraries for COPY statements and macro definitions.
- Controls whether some compilers will list symbolic NOSYM SYM names at the terminal (not used by the assembler or RPG II):
- NOXREF · Determines whether the assembler and some compilers XREF will produce a cross-reference listing of symbolic names at the terminal.

RLD Controls whether the assembler lists the relocation library at the terminal. The default is set at in-NORLD stallation time.

The following options apply only to jobs in VSE/ICCF interactive partitions.

Allows the address of the COMREG to be placed at any ANYPHASE =nn point within the non-GETVIS portion of the interactive partition. For example, ANYPHASE=40 sets the address to the 40K point within the interactive partition.

CLEAR Controls whether the entire interactive partition

NOCLEAR (except for the first 6k) will be cleared whenever a job ends.

NOCONT The 'CONTINUE' option sets continuous mode as if the CONTINUE /CONTINU command has been entered after /RUN or /EXEC.

<u>NODUMP</u> Determines whether the VSE/ICCF DUMP program is DUMP invoked when an interactive program terminates abnormally:

EOFPRT Specifies whether an end-of-file record is placed in NOEOFPRT the print area at the end of the print output after the job has terminated.

GETVIS=nnn Alters the default size of the background GETVIS area or P-nnn (default 48K). P-nnn defines the value that the proor AUTO gram needs for execution; the rest of the partition is allocated to the GETVIS area. GETVIS=AUTO causes VSE/ICCF to calculate GETVIS space according to the largest phase in the program.

<u>GO</u> Controls automatic invocation of LINKNGO (compatible NOGO with ETSS II 'LOAD' and 'NOLOAD');

<u>NOINCON</u> Controls whether input data requests are directed INCON to VSE units SYSIPT or SYSxxx (NOINCON) or to the terminal for conversational input;

<u>NOJSDATA</u> 'JSDATA' causes checking for /LOAD and /DATA state-JSDATA ments to be bypassed allowing VSE/ICCF job streams to be read into a program.

<u>NOLOG</u> Controls whether job entry statements encountered by LOG the job scheduler will be displayed at your terminal;

<u>NOOBJECT</u> 'OBJECT' causes the object deck in the job stream to OBJECT be treated as data; then loads the object deck for execution as the next step of the job.

NOPERM 'PERMFILE' prevents open requests for file 'IJSYSOn' PERMFILE from being altered to 'IKSYSpn', where 'p' is the interactive partition identifier (does not apply to compilers);

PROMPT Allows prompts ('?' for typewriter terminals and

NOPROMPT \*ENTER DATA\* for 3270) to be bypassed where a conversational read is encountered;

SAVE 'SAVE' bypasses resetting of the punch area pointer <u>NOSAVE</u> and allows successive jobs to use the contents of <u>NORESET</u> the punch area. 'RESET' resets the pointer to the RESET beginnig of the punch area.

NOSPECIAL 'SPECIAL' must be set if the job to be executed SPECIAL will use any special programming techniques such as rewriting job stream data to disk (read-no-feed followed by write) or reading backward in the job stream.

TIME=mm[,nn]

'mm' sets a execution time limit (1 execution unit is approximately one second) after which the job is cancelled (max. 32767). 'nn' limits the number of seconds that the job may occupy the interactive partition (max. 65355);

<u>NOTRUNC</u> '00' (or omission of 'nn') causes the first 78 char-TRUNC=nn acters of each print line to be printed. Specifying 'nn' causes left truncation.

PRCLOSE Closes a member used to contain SYSLST, SYSLOG or PUCLOSE SYSPCH data. This member was defined by a previous /FILE statement. Subsequent output is placed in the print or punch area. <u>SYSLOG</u> Specifies from where the VSE librarian reads it's SYSIPT input.

/PAUSE [comment]

Causes the scheduler to display the specified comment and then halt execution.

#### /RESET

Resets the effect of any previous /ASSGN statement to the installation defaults.

#### /TYPE comment

Displays the specified comment (or tags) at the terminal. Tags are: USR (user ID), TRM (terminal ID), PRT (interactive partition number).

# /UPSI string

Sets UPSI switches on, off or leaves them unchanged.

string From 1 to 8 zeros, ones or x's. '1' sets the corresponding switch on, '0' sets it off, and 'x' leaves it unchanged. 'x' is the default. All UPSI switches are set off at the beginning of each job. Once set on during a job, they remain set until chauged by another UPSI setting.

#### DUMP COMMANDS

ADD hexval1[GPRn [hexval2]0]

Adds two hexadecimal values, or the contents of a general purpose register and a hexadecimal value.

Backward [-n|h|-16]

Reduces the the scan/locate pointer by the specified number of bytes.

CANcel [NOprint]

Terminates the dump program and displays status.

DEC hexval

Converts a hexadecimal value to decimal.

DISPINd hexval1|GPRn [hexval2]0[length]+16]]

Displays an area of storage whose address is determined by a base address ('hexvall' or contents of a GPR) and a displacement ('hexval2'). 'length' controls number of bytes to be displayed.

Display	
DISPAct	
DA	[address  <u>*</u> [length  <u>+16</u> ]]
DISPCHar	GPR[n[[GPR]m]]
DC	FPR[n]
DISPFwd	
DF	

Displays the contents of program storage, general purpose registers or floating point registers.

DISPAct Same as DISPLAY but assumes actual rather than relative addresses.

DISPCHar Same as DISPLAY but only character representation of data is displayed rather than both character and hexadecimal. DISPFwd Same as DISPLAY except that the scan/locate pointer is advanced by the length of the display.

DUmp [ALL]

Displays all general and floating point registers as well as all program storage areas.

End Eoj

Terminates the dump program.

Forward [+n|h|+16]

Advances the scan/locate pointer by the specified number of bytes.

HEX decval

Converts a decimal value to hexadecimal.

Locate hexval|'string'

Locates a string of data characters within your object program area. The scan operation begins at the current location of the scan/locate pointer.

ORigin	address	[REL]
	START	
	*	
	GETvis	

Sets the basis for relative to actual address calculation to a location other than the program load point.



ddress actual address of the start of the reference area.

- REL specifies that the previous address is relative to the program load point.
  - START Re-establish the initial value (program load point) as basis for address calculation.
  - Start of reference area is the current scan/locate pointer value.
- GETvis Start of the reference area is the start of the interactive partition GETVIS area.

#### Point [+n|h|+0|GETvis]

Sets the scan/locate pointer to the specified relative location within the program (reference area).

SAVE [comment]

Obtains a hardcopy dump of the interactive partition.

SEarch hexval|'string'

Locates a string of data characters within your program area. The scan operation begins at the first location in your program (or the first location in an area specified by the ORIGIN command), and is thus equivalent to a LOCATE command preceded by a TOP command.

STatus	[INstr	[addr] PSW]
SHow		

Obtains various displays of information within the program. With no operand specified, the STATUS command displays the actual and relative addresses of all key program control factors together with information concerning the program termination status.

SUB	hexval1 [hexval2]
PSW	Displays the termination program status word.
	not specified, the termination instruction will be decoded.
addr	Relative hexadecimal address of the instruction. If
	tents of the data fields.
	ative data locations, data length and the actual con-
	program decodes that instruction into actual and rel-
INstr	Points to an instruction within your program. The dump

hexvall [hexval2] GPRn

Subtracts one hexadecimal value ('hexval2') from another hexadecimal value ('hexval1') or from the contents of a general purpose register ('GPRn').

# Тор

Sets the scan/locate pointer to the first position in the current reference area.

#### PROCEDURES AND MACROS

ASSEMBLE name1 [OBJ name2|OBJ \*] [options]

Causes a library member to be processed by the VSE assembler.

name1 name of the library member containing the source program to be assembled.

name2 name under which the object module is to be saved. The default name (or if 'OBJ \*' is specified), is the punch area.

options /OPTION statement options

COBOL name1 [OBJ name2 | OBJ \*] [CBL] [options]

Causes a library member to be processed by the DOS/VS COBOL compiler.

CBL Causes prompting for a COBOL CBL option statement.

All other parameters are the same as for the ASSEMBLE procedure.

[@]COPY nn|/string/ [command [operand]]

Copies lines within a file. These macros are only valid in the edit and full screen edit modes.

number of lines to be copied (maximum 99)

/string/ All lines from the current line pointer down to (but not including) the first occurrence of 'string' will be copied.

command Editor command such as UP, DOWN, LOCATE, LOCUP, or nnnnn)

operand Associated operand, e.g. a decimal number (UP 3) or a string (LOC /NREF/).

COPYFILE name1 name2 [password]

nn

Copies a library member and saves the copy in your primary library.

name1 Name of the member which is to be copied. name2 name of the member containing the saved copy password A four character password which applies to namel and/or which will be applied to name2.

COPYMEM namel [pass1] lib1 name2 [pass2] lib2 [PUrge]

Copies a library member and saves it under a specified name in a specified library.

name1	Name of the member to be copied
passl	Password which applies to member namel.
lib1	Number of the library in which member name1 resides.
name2	Name of the copy of the original member.
pass2	Password which applies to member name2.
lib2	Number of the library into which member namel is to
	be copied.
PUrge	Causes the member namel to be purged from lib1

CPYLIB name [password] lib1 lib2

Copies a member from one library to another.

name	name of the library member to be copied from one li-
	brary to another.
password	to be specified if the member is password protected.
lib1	library number which contains the member.
lib2	library number into which the member is to be copied.

# \$DA

Displays the current status of VSE partitions.

ED name [password]

Invokes the full screen editor. Valid in command mode.

name name of the library member to be edited. password to be specified if library member name is password protected.

# EDPRT EDPUN

Allows viewing or editing of the print or punch (stack) area using the full screen editor. Valid in command mode. FORTRAN name1 [OBJ name2|OBJ \*] [PROCESS] [options]

Causes a library member to be processed by the VS FORTRAN compiler.

PROCESS Specifies that you are to be prompted for VS FORTRAN compiler options.

All other parameters are the same as for the ASSEMBLE procedure.

#### [@]FSEDPF

Sets the full screen editor program function keys to the following functions:

SET PF1ED BACK 1	(Page backward 1 page)
SET PF2ED NEXT 10	(Page forward 10 lines)
SET PF3ED FORW 1	(Page forward 1 page)
SET PF4ED CURSOR INP	(Set cursor to next command line)
SET PF5ED CURSOR LINE 16	(Set cursor forward 16 records)
SET PF6ED CURSOR LINE 5	(Set cursor forward 5 records)
SET PF7ED CURSOR CUR	(Set cursor to current line)
SET PF8ED CURSOR TABB 20	(Set cursor backward 20 columns)
SET PF9ED CURSOR TABF 20	(Set cursor forward 20 columns)
SET PF10ED CURSOR TABF 0	(Leave cursor unchanged)

GETL jobname [jobnumber [jobsuffix]] [jobclass]
[NOPRINT|PRINT] [KEEP|DELETE] [MEM=member|\*]
[PWD=jobpassword]

Retrieves output from the VSE/POWER list queue.

jobname	Name of the job which produced the print output
jobnumber	1 to 5 digit jobnumber assigned to the job by
	VSE/POWER.
jobsuffix	1 to 3 digit job suffix which designates the seg-
	ment number (1 is default).
jobclass	Class of the job in the VSE/POWER queue (A-Z).
NOPRINT PRINT	Specifies whether print control characters are
	placed in the output data.
KEEP   DELETE	Disposition of the job after retrieval.
MEM=member *	Name of the member into which the output is to be
	placed. If no member (or 'MEM=*') is specified,
	the data are placed in the PRINT area.

password Specifies the 1 to 8 alphanumeric password assigned to the job in the \*\$\$LST statement.

GETP jobname [jobnumber [jobsuffix]] [jobclass]
[NOPRINT|PRINT][KEEP[DELETE][MEM=member|\*[\$\$PRINT]
[PWD=jobpassword]

Retrieves output from the VSE/POWER punch queue.

MEM=\$\$PRINT Causes the PUNCH queue data to be placed in the PRINT area. If neither the member name nor 'MEN=\*' is specified, the data are placed in the punch area.

All other parameters have the same function as for the GETL procedure.

][nonnumjclass]] [jobnumber[numjclass]]
] [MEM=member] [PWD=jobpassword]

Retrieves a job from the VSE/POWER reader queue.

[non]numjclass Either a numeric class (0 - n, where 'n' is the number of the VSE partition), or a nonnumeric class (a - z). A numeric jobclass must never be specified without jobnumber!. (A is default).

All other parameters have the same function as for the GETL procedure.

HELP [statement|/SET [option]|EDITOR|JES|LINE]

Displays summary and detailed information on using VSE/ICCF commands, macros, procedures, and job entry statements.

statement	Name of a command, macro, procedure, or job entry
	statement.
/SET	Requests HELP information on the /SET command. 'op-
	tion' is any of the first operands of the /SET command.
EDITOR	Request a display of all EDITOR commands.
JES	Requests a display of all job entry statements.
LINE	Requests a display of all editor line commands.

HC command operands

Switches to hardcopy mode, executes a specified command and returns to normal display mode.

command Any ICCF system command which is to be executed in hardcopy mode.

operands Any operands associated with the command specified.

LIBRC 1.s mn.mt [\$\$PUNCH|membername[password][REPLACE] [DATA=YES][EOD=xx]

Catalogs a VSE/ICCF library member or the punch area into a VSE sublibrary.

1	VSE library name
s	VSE sublibrary name
mn	VSE member name
mt	VSE member type
\$\$PUNCH	Contents of punch area is to be cataloged into the
	specified VSE sublibrary.
membername	Name of VSE/ICCF member
password	Password of VSE/ICCF member if it is password pro-
	tected.
REPLACE	If a member with the specified name already exists in
	the VSE sublibrary, the member should be replaced by
	the new data.
DATA=YES	Applies only to cataloging a VSE procedure. It indi-
	cates that the procedure contains SYSIPT data.
EOD=xx	Specifies two end-of-data characters. If omitted, the
	end-of-data delimiters are assumed as '/+'.
LIBRL	<pre>1.s mn.mt [<u>\$\$PRINT</u> membername [password]]</pre>

(REPLACE)

Displays a member of a VSE sublibrary, or stores it in print-type format as a member in your VSE/ICCF library or in the print area.

\$\$PRINT Member mn.mt is to be stored into the print area membername Name od VSE/ICCF member into which member mn.mt is to be stored. The two rightmost characters should be '.P'.

REPLACE If a member with the specified name already exists in the VSE/ICCF library, it should be replaced by the new data. All other operands are the same as for the LIBRC macro.

LIBRP 1.s mn.mt [<u>\$\$PUNCH</u>|membername [password]] [REPLACE]

Punches a member from a VSE sublibrary, or stores it as a member in your VSE/ICCF library or in the punch area.

\$\$PUNCH Member mn.mt is to be stored into the punch area

All other operands are the same as for the LIBRL macro.

LOAD [name1|\*][JES name2|\*][DATA name3|\*][options]

Loads and executes the specified object program from the VSE/ICCF library.

- namel Name of the member containing the object deck. If '\*' is specified, the object module will be read from the punch area.
- JES name2 Name of the member containing file definitions and job entry statements for the execution of the program. If '\*' is specified, you will be prompted for job entry statements.
- DATA name3 Name of the member containing the job stream data for the execution. If 'm' is specified, the data will be read conversationally from the terminal as if /DATA INCON had been specified.
- options /OPTION statement options that are to be used for the execution.

[@]MOVE (see @COPY Macro)

Same as COPY macro except that the specified lines are deleted from their former location.

#### MVLIB (see CPYLIB Procedure)

Same as CPYLLB procedure except that the member is deleted from the original library.

PLI name1 [OBJ name2|OBJ \*] [PROcess] [options ]

Causes a library member to be processed by the DOS/VS PL/I optimizing compiler.

PROcess Causes prompting for a PL/I \*PROCESS OPTION statement.

All other parameters are the same as for the ASSEMBLE procedure.

PRINT [name [password]]

Routes a library member (or the contents of the input area) to a hardcopy terminal associated with a 3270 terminal.

name Name of the library member to be printed. If omitted, the contents of the input area will be listed. password The password (if any) associated with the member.

RELIST [name [password]]

Transfers the contents of the print area, a print-type member, or of a normal library member to the printer.

name Name of a library member containing the data to be printed. If this operand is omitted, the print buffer area will be printed.

password A four character password which need only be specified if the first operand is password protected.

RPGIAUTO name1 [OBJ name2 | OBJ \*] [options]

Prepares an RPG II source program to use the AUTO REPORT feature, compiles it using the RPG II compiler and places the object module in a library member.

namel	Name of a library member containing the RPG II source
	program to be compiled.
OBJ name2	Library member where the object module is to be
	placed. The default (or if 'OBJ $\star^{*}$ is specified), is
	the punch area.
options	/OPTION job entry statement options, e.g. NODECK,
	LIST, etc.

RPGII name1 [OBJ name2 | OBJ \*] [options]

Causes a library member to be processed by the DOS/VS RPG II compiler.

The parameters are the same as for the RPGIAUTO procedure.

RPGIXLTR name1 [PUNCH name2 |PUNCH \*]

Prepares an RPG II source program to call the DL/I Translator for processing by the RPG II compiler and places the translated source module in a library member.

- name1 Name of a member in the library containing the RPG II source program to be translated.
- PUNCH name2 Library member name into which the translated source module is to be placed. The default (or if 'PUNCH \*' is specified) is the punch area.

RSEF	[nn]
------	------

Calls the RSEF program (the RPG II Source Entry Facility)

nn

GETVIS space in multiples of 1K bytes reserved for execution of the RSEF program (default is 60K bytes).

SCRATCH fileid |\* volser [strt,nspace [PURGE]]

Removes files specified as DISP=KEEP in the /FILE statement from the dynamic space area where they are no longer needed.

fileid	file-id as it appears in the VTOC. '*' should be
	specified when using the PURGE option.
volser	Volume serial number of the volume on which the file
	is located.
strt	The starting track number of the file. Need only be
	specified if the VSE system is using the 'file pro-
	tect' supervisor option or if PURGE is specified.
nspace	Number of tracks (for CKD) or number of blocks (for
	FBA) in the file. Need only be specified if 'strt' is

specified.

# SDSERV [CONN|COM] [NAME|USER|DATE]

Sorts and displays the directory of the primary (no operand), connected (CONN) or common (COM) library. Sorting criteria are NAME, USER, or DATE.

SORT name1 [pass] [SEQ seqinf] ]PRINT |PUNCH name2 |\*]

Sorts a library member and either places the output in the original library member, saves it in a new library member, places it in the punch area, or writes it back to the terminal.

name1 Library member to be sorted.

pass A 1 to 4 character password which must be specified for password protected members.

SEQ seqinf Indicates where the sort sequence fields are located. The format is XYY2ZXYY2Z...where:

'X' is A or D indicating ascending or descending,

'YY' is the starting column number in the record,

'ZZ' is the number of columns in the sequence field. Up to four sequence fields may be specified. The default columns are 1 to 15.

PUNCH name2 Name of the library member in which the sorted output is to placed. If omitted, the output replaces the original member.

PUNCH \* Places the output in the punch area.

PRINT Returns the output to the terminal.

#### \$SPACE

Causes the DTSSPACE program to be loaded into an interactive partition and executed. This program checks all dynamic disk space allocations within the system and prints its status.

STORE name [pass]

Stores the contents of the punch area in a library member. Must be specified immediately after the execution that created the output.

name Library member name under which the contents of the punch area will be stored.

pass A four character password which needs to be specified if the member is to be password protected.

SUBMIT name [pass1] [DIRECT ] [PRINT] [PWD=pass2] [DIRECTBG] [RETURN ] [RETURNBG] Submits a VSE/ICCF or VSE job stream to VSE/POWER for execution in another VSE partition. Name of an ICCF library member containing the name job stream to be executed. A four character password which need only be pass1 specified if the library member is password protected. DIRECT DIRECTBG Directs output to the system printer. RETURN RETURNED Directs output to the VSE/POWER output queue. being run in a VSE/POWER controlled partition. PRINT Displays the VSE JCL that is passed to VSE/POWER. PWD=pass2 A 1 to 8 character password which is placed in the VSE/POWER \$\$ JOB card to password protect the output. VSBASIC [LOAD|SOURCE] name1 [OBJ name2]\*]

VSBASIC [LUAU]<u>SUUKUE</u>] name1 [UBJ name2[<sup>14</sup>] [JES name3[<sup>14</sup>] [DATA name4[<sup>4</sup>] [RUN - ]

Compiles and executes a VS/BASIC source or object program and saves the object deck.

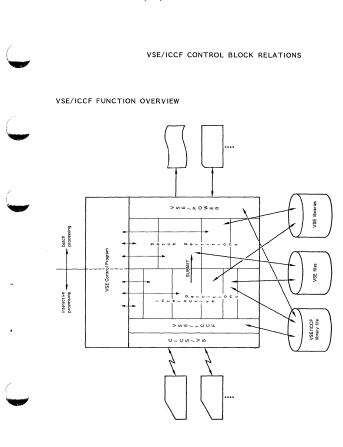
LOAD specified if the member 'namel' is a VS/BASIC object program.
SOURCE If specified or omitted, the member 'namel' is assumed to be a VS/BASIC source program.
name1 Name of an ICCF library member which contains the VS/BASIC input in either source or object form.
OBJ name2 Name of the member in which the VS/BASIC object deck is to be saved. If 'x' is specified, the object deck will be placed in the punch area. If omitted, no object deck will be produced.
JES name3 Member 'name3' contains job entry information for the

job. '\*' causes prompting for the job entry statements. DATA name4 Name of a member containing the input data for the job. '\*' causes the data to be read conversationally from the terminal RUN Causes prompting for a VS/BASIC RUN OPTION statement.

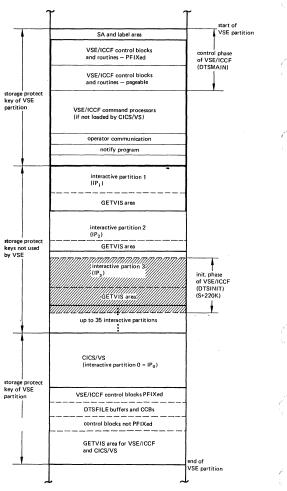
VSBRESEQ name [incr 10 [pass]] [LIST] [NOUPD]

Re-sequences a VS/BASIC source program.

name	Member containing the VS/BASIC program to be
	re-sequenced.
incr	Re-sequencing increment (1-5000). The default is 10.
pass	The 4 character password associated with the member
	if it is password protected.
LIST	Lists the re-sequenced deck at the terminal.
NOUPD	Re-sequences the program and generates error and
	warning messages, but does not replace the member in
	the library.

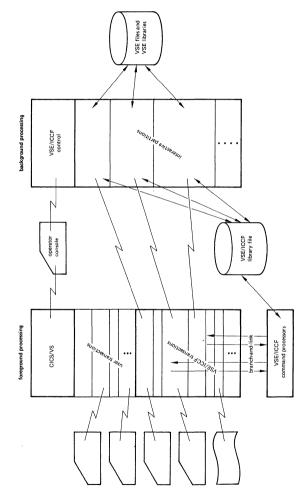


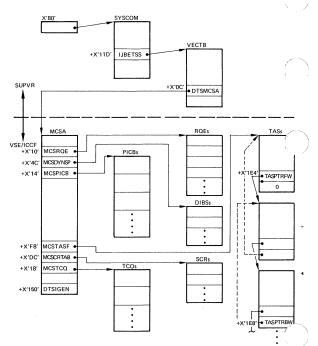
VSE/ICCF Control Block Relations 55



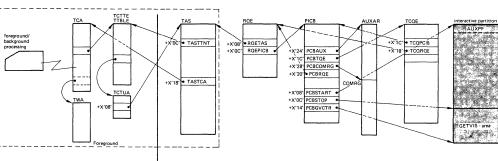
# VSE/ICCF PARTITION LAYOUT

FOREGROUND VERSUS BACKGROUND PROCESSING





# BASIC CONTROL BLOCK STRUCTURE FOR VSE/ICCF



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meaning	 task ctl. area	terminal table entry	terminal associated storage	request queue entry	partition infor- mation ctl. blk.	auiliary area (ext. of PICB)	task control queue entry
location of control block	 trans.&term. ctl. facility	trans.& term. ctl. facility	ICCF GETVIS-area	ICCF (PFIXed)	ICCF (PFIXed)	ICCF (pageable)	ICCF (PFIXed)
subject to be controlled	 transaction	lines and terminals	session {/LOGON-/LOGOFF}	background pro- cessing request	interactive partition	interactive partition	DOS/VSE subtask
= of control blocks	 = of active transactions	= of terminals and lines	= of logged-on users	#of users which may re- quest background exec.		= of interactive partitions + 1	= of IP-tasks + 2

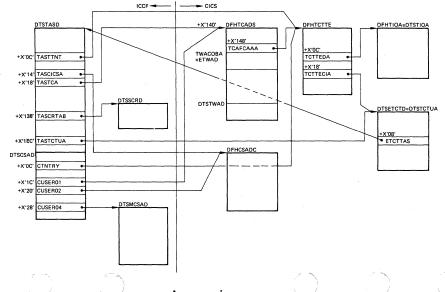
# SESSION CONTROL BLOCK STRUCTURE

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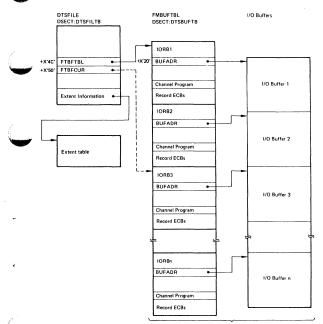




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ICCF - LIBRARY



Located in GETVIS

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VSE/ICCF CONTROL BLOCK AND AREA LAYOUT

#### MAIN TASK COMMON SYSTEM AREA

# CT NAME: DTSMCSAD

THERE IS ONLY ONE MAIN TASK CSA. IT CONTAINS POINTERS TO KEY ELEMENTS WITH IN THE TIME SHARING SYSTEM. IT IS THE FOCAL POINT FOR INTER-TASK COMMUNICATION. IT ALSO CONTAINS CONSTANT INFORMATION USED IN SYSTEM "NTROL.

S AREA IS ADDRESSABLE VIA REGISTER 3 IN EVERY MODULE OF THE CONTROL PROGRAM.

	OFFS	ΕT	LENGTH	NAME	TYPE	DESCRIPTION
	0	(0)	8	MCSRCB	CT.8	RESOURCE CONTROL BLOCK
	8	(8)	8	MCSID	CL8	MCSA IDENTIFICATION STRING *\$ICCF\$*
	16	(10)	4	MCSRQE	Α	ADDR OF RQE TABLE START
	20	(14)	4	MCSPICB	Α	ADDR OF START OF PARTITION TABLE
	24	(18)	4	MCSTCQ	А	ADDR OF START OF TASK CONTROL BLOCK
	28	(1C)	4	MCSMNECB	А	ADDR OF MAIN TASK ECB
	32	(20)	4	MCSHIECB	А	ADUR OF TIMER TASK (DTSCHIGH) ECB
٠	36	(24)	4	MCSMTCSA	А	ADDR OF TERMINAL CONTROL SYSTEM AREA
	40	(28)	4	MCSCSVCH	Α	ADDR OF SVC HANDLER
	44	(2C)	4	MCSCMCH	А	ADDR OF MONITOR CALL HANDLER
	48	(30)	4	MCSSEND	Α	ADDR OF END OF SUPERVISOR
2	52	(34)	4	MCSFLADR	۸	ADDR OF FILE HANDLER
ĺ	÷	(38)	4	MCSMTCSE	Α	TERMINAL CONTROL ENTRY POINT
-	60	(3C)	4	MCSPARAM	Α	ADDR OF PARAMETER LIST FOR
						INTERTASK COMMUNICATION
	64	(40)	4	MCSNXPCB	А	ADDR OF NEXT SELECTABLE PICB
	68	(44)	4	MCSCOMRG	А	ADDR OF MAIN TASK COMMUNIC. REGION
	72	(48)	4	MCSHIPT	А	HI PARTITION ADDRESS
Ę.	ŝ	(4C)	4	MCSDYNSP	А	ADDR OF DYN SPACE DISK INFO ELEMENTS
-	Ő	(50)	4		А	NOT USED
	84	(54)	4	MCSSVAD	Α	ADDR OF SVA START
	88	(58)	4	MCSVRTAD	Α	ADDR OF END OF VIRTUAL STORAGE
	92	(5C)	4	MCSOPRTN	A	ADDR OF OPERATOR COMMUNIC ROUTINE

s to locate: Displ. X'(OC)'(DTSMCSA) of the ICCF Vector Table and reg.3 contain the addr. of the MCSA. (The MCSA starts right after the ICCF Copyright Constant.)

OFFS	ET	LENGTH	NAME	TYPE	DESCRIPTION	
				x'80'	BIT ON - OPERATOR COMM ROUTINE ACTI	ve.
96	(60)	4	MCSOPTNS	F	SYSTEM OPTION BITS	· ``
100	(64)	2	MCSMTID	AL2	TID FOR T/S MAIN TASK	. ,/
102	(66)	1	MCSCOMOP	С	INITIAL PARTITION DUMP OPTION BYTE	
103	(67)	1	MCSLOGSW	с	LOGGING CONTROL SWITCH	
				X'01'	LOGGING IS SET ON	
				X'10'	FULL LOGGING HAS BEEN SET	
104	(68)	4		A	RESERVED	$\sim$
108	(6C)	2		н	*	, j
110	(6E)	2	MCSLSTLB	AL2	ADDR OF SYSLST LUB IF DUMMY ASSIGNED	D
112	(70)	1	MCSCOM	С	MAIN INTERTASK REQUEST BYTE	
				C'A'	REQUEST ATTACHING A TASK	
				c'c'	REQUEST CANCEL A TASK	
				C'D'	CANCEL WITH DUMP	~
				C'E'	REQUEST CANCEL THE PARTITION	)
				c'v'	ATTACH COMING FROM CICS/VS	·. /
				c'w'	DETACH COMING FROM CICS/VS	
				X'FF'	CANCEL T/S SYSTEM OPERATION	
113	(71)	1	MCSCOMSV	с	COMMUNICATION BYTE, TRANSIENTS	
	,			X'C1'	REQUEST INITIAL SPOOL ALLOCATION	
114	(72)	1	MCSSYSST		SYSTEM STATUS BYTE	
	()			c'D'	CANCEL/DUMP PENDING	
				C'E'	END OF JOB PENDING	*
				c'o'	OPERATOR COMMUNICATION RUNNING	
				с'т'	REQUEST TERMINAL CONTROL OPRTR COMM	
				c's'	SOFT SHUT DOWN (DELAYED EOJ)	
115	(73)	1	MCSSYSOR		ENQ BYTE FOR SYSTEM LIBRARIES	*
115	(,,,)	-		x'02'	BIT ON - LTA USED BY ATTENTN ROUTIN	F
				X'20'	BIT ON - RELO LIB ENQD	
				x'40'	BIT ON - SOURCE LIB ENQD	
				X'80'	BIT ON - CORE ING LIB ENQD	
116	(74)	4	MCSRSV01	A 00	RESERVED	. )
120	(78)		MCSHIUSR	A	HIGHEST TAS ADDRESS ALLOCATED	1
120	(70)		MCSCMECB	A	ECB FOR WAITING ON ROE	
124	(80)		MCSIPARM	A	ADDR OF INIT. PARAMETER LIST	
132	(84)		MCSTXNTP	16A	ENTRY POINTS FOR TXNN MODULES	
196	(C4)		MCSRSV03	A	RESERVED	
200	(C8)		MCSRSV03	A	RESERVED	$\sim$
200			MCSUSR01	A	USER AREA	1
	(CC)			A	W ARLA	
208	(D0)		MCSUSR02		*	
212	(D4)		MCSUSR03	A	н 	
216	(D8)		MCSUSR04	A	9F	
220	(DC)		MCSCRTAB	A	ADDR OF SCREEN SIZE TABLE	
224	(E0)		MCSDUMP	A	ADDRESS OF DUMP ROUTINE	<u>}</u>
228	(E4)			A	RESERVED	·/
232	(E8)	1	MCSFLAG1	X	SUPERVISOR OPTIONS	
				X'80'	SV WITH SECURITY GENERATED	

	OFFS	ET	LENGTH	NAME	TYPE	DESCRIPTION
					x'40'	HARDCOPY PRINTER WITH KATAKANA
	233	(E9)	1	MCSSYSSD	х	SYSTEM SHUT DOWN CONTROL BYTE
	1				X'80'	BIT ON - EOJ REQUEST BY TERMINAL CTRL
_					X'40'	BIT ON - WARN COMMAND ISSUED
					X'20'	BIT ON - NO MORE EXECS
					X'08'	BIT ON - TC OPERATION PENDING
					X'04'	BIT ON - TC IN 2ND SVC ROUTINE
					X'02'	BIT ON - HIGH TASK IN GENERAL WAIT
					X'01'	BIT ON - RESET HIGH TIMER
22.5	234	(EA)	2	MCSSDDEL	н	SECONDS TILL NO EXEC ALLOWED
	236	(EC)	4	MCSHTIME	А	HIGH TIMER VALUE FOR TEST
	240	(F0)	1		AL1	RESERVED
	241	(F1)	1		AL1	*
	242	(F2)	1		AL1	*
	:43	(F3)	1		AL1	*
	244	(F4)	1		AL1	*
	245	(F5)	1		AL1	*
	246	(F6)	1	MCSTCTYP	х	C - CICS IS TERMINAL CONTROL
	247	(F7)	1	MCSLOPEN	х	LIBRARY OPEN FLAGS, SAVES
						RTASTATE, DON'T ADD ANY BIT
					X'80'	ON - RUN DTSANALS RECOVER
					x'40'	ON - RUN DTSUTIL BACKUP/RES
	248	(F8)	4	MCSTASF	A	ADDR OF FIRST TAS
	252	(FC)	4	MCSTASL	A	ADDR OF LAST TAS
	256	(100)	0	MCSFBTA	00	FORCE BUFFER TIME ACCUMULATOR
	256	(100)	4	MCSFBWA	F	FORCE BUFFER WORK AREA ADDR
	260	(104)	4	MCSXPCCB	Α	ADDR OF XPCCB FOR TERMINAL CONTROL
	264	(108)	4	MCSFRFIL	F	SUBROUTINE ENTRY POINT FOR
						FREEING FILE ROUTINE
	268	(10C)	4	MCSNTYRT	Α	LOAD ADDR OF NOTIFY TASK
	272	(110)	4	MCSXPNTP	Α	SVA LOADED X PARTITION RTN
	:76	(114)	8	MCSXPIDK	XL8	XPCC TOKEN GIVEN AT IDENTIFY (POWER QUEUE ENTRY HANDLING)

# ECBS USED BY /DISC DTSFILE COMMAND

7	284	(11C)	4	MCSECBMO	F	MAIN WAIT-ECB, POSTED BY
(						DTSOPCM AFTER /DISC DTSF CMD
						AND AFTER /CONN DTSFILE CMD
	288	(120)	4	MCSECBNO	F	NOTIFY WAIT-ECB, POSTED BY
						OPCM TO QUIESCE NTFY
	292	(124)	4	MCSECBON	F	OPCM WAIT-ECB, POSTED BY
						NTFY WHEN IT QUIESCE
1	96י	(128)	4	MCSECBOQ	F	OPCM WAIT-ECB, POSTED BY 1\$\$Q
						WHEN ALL ICCF XACTIONS TERMD
	300	(12C)	4	MCSECBQO	F	ISSQ WAIT-ECB, POSTED BY OPCM

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OFFSET	LENGTH	NAME	TYPE	DESCRIPTION	
304 (130	) 4	MCSECBNM	F	TO TERMIN.ALL ICCF XACTIONS NTFY WAIT-ECB,POSTED BY MAIN TO AWAKE NTFY FOR /CON DTSF	$\bigcirc$
308 (134	) 4	MCSQECB	F	SSX-ECB TO BE POSTED AFTER A SUCCESSFUL /CON DTSFILE CMD	
312 (138	) 4	MCSFLAG2		/DISC DTSFILE CNS ERROR FLAG /CON DTSFILE CMD IN PROGRESS /DISC DTSFILE CMD IN PROGRES RESET WITH /CON DTSF CMD DTSFILE DISCONNECTED AT LEAST ONE OF THE 1\$\$8'S NOT STAI 1\$\$Q INITIALIZED 1\$\$Q INITIALIZED	
			X'02' 3C	INVALIDATE BUFFERS AT CLOSE PATCH AREA	
316 (130	·	MCSSYSLD	А	ADDR OF LOAD PROTECT TABLE	
320 (140	·	MCSSYSFL		ADDR OF SYSTEM FILE TABLE	
324 (144		MCSSYSPG		ADDR OF SYSTEM PROGRAM TABLE	
328 (148		MCSENDP	А	ICCF PARTITION END ADDR	
332 (140	3) 4			NOT USED	
336 (150	) 0	GENSTART	OF	CONTINUE WITH GENERATION TABLE	

## GENERATION TABLE - CONTINUATION OF MCSA

### ECT NAME: DTSIGEN

DTSIGEN CONTAINS AFTER ASSEMBLY AN AREA OF DC-CONSTANTS WHICH REFLECT THE OPTIONS SPECIFIED IN DTSOPTNS. ITS DSECT FORM IS TO BE CONSIDERED AS THE CONTINUATION OF THE DTSMCSAD DSECT. ITS CSECT BUILDS A PHASE WHICH IS LOADED AT INITIALIZATION OF THE ABOVE PROGRAMS.

NPARTN CONTAINS 0 - 36 ENTRIES WITH 8 BYTES. ENTRIES NOT USED ARE CLEARED WITH x'oo'.

	OFFSI	т	LENGTH	NAME	TYPE	DESCRIPTION
/	0	(0)	1	GENOPT1	B'0000	
É.					X'80'	ALTERNATE SECURITY FEATURE
1					X'40'	ATTENTION SUPPORT FOR 2741
					X'20'	CONVERSATIONAL RJE SUPPORT
					X'10'	INTERACTIVE COMPILER
					X'08'	LOAD PHASE NAME PROTECTION
	1	(1)	1	GENDISPK	х	DISPLAY/ATTEN KEY DEFINITION
	2	(2)	1	GENCANKY	х	CANCEL KEY DEFINITION
	3	(3)	1	GENEDEND	AL1(0)	DEFAULT END OF EDITOR ZONE
	4	(4)	1	GENCRJEB	CL1' '	POWER OUTPUT QUEUE FOR TERM
	5	(5)	1	GENCRJEC	CL1''	POWER OUTPUT QUEUE FOR PRNT
	6	(6)	1	GENCRJED	CL1' '	POWER PRINTER DISPOSITION
	7	(7)	1	GENCRJEE	CL1''	POWER INPUT QUEUE FOR GETR
٩	8	(8)	4	GENCISZE	AL4(0)	FBA CONTROL INTERVAL SIZE
	12	(C)	2	GENCOMLB	Н'О'	COMMON LIBRARY NUMBER
						- 0 - IF NO COMMON LIBRARY
	14	(E)	2	GENEDFLG	н'о'	EDITOR CHANGE FLAG COLUMN-1
~	16	(10)	2	GENHCLNE	Н'О'	DEFAULT END OF HARDCOPY LINE
í	.8	(12)	2	GENINTRV	Н'О'	TIMER INTERRUPT INTERVAL
1	20	(14)	2	GENRECS	Н'О'	RECORDS PER BLOCK
	22	(16)	2	GENBLK	AL2	BLOCK SIZE CKD
	24	(18)	2	GENBUFS	Н'О'	NUMBER OF FILE BUFFERS
	26	(1A)	2	GENECBS	Н'О'	MAX NO. OF ECBS
	28	(1C)	2	GENXTNTS	Н'О'	NO. OF EXTENTS
£	30	(1E)	2	GENTCQ	Н'О'	NO. OF CONCURRENT REQUESTS
-	62	(20)	2	GENTASKS	Н'О'	NO. OF CONCURRENT TASKS
	34	(22)	2	GENPARTS	Н'О'	NO. OF INTERACTIVE PARTITIONS
	36	(24)	2	GENUSRS	H'0'	NO. OF RQE TABLE ENTRIES
	38	(26)	2	GENPSIZE	Н'О'	PSEUDO PARTITION SIZE
	40	(28)	4.	GENPRINP	AL1(0)	CL3 PROGRAMMER LU FOR READING
6	44	(2C)	4	GENPRLST	AL1(0)	,CL3 PROGRAMMER LU FOR WRITING

How to locate: DTSIGEN starts at displ. X'150' (GENSTART) of MCSA.

48       (30)       4       GENPRPCH ALI(0),CL3 PROGRAMMER LU FOR PUNCHING         52       (34)       4       GENPRPLM ALI(0),CL3 PROGRAMMER LU FOR READ PUNCH         56       (38)       4       GENPRLOG ALI(0),CL3 PROGRAMMER LU FOR CONSOLE         60       (3C)       1       ALI RESERVED         61       (3D)       2       GENRORI XL2'0' DUMMY PUNCH         65       (41)       2       GENRORI XL2'0' DUMMY PENDER         65       (41)       2       GENRORI XL2'0' DUMMY PENDER         66       (52)       2       GENROFOL AL2(0) NO. OF RECORDS IN PRINT SPOOL         71       (47)       1       GENSYSTM CL1       TERMINAL CTRL USES AREA OFFSET         76       (46)       2       GENTCOPS B       TERMINAL CTRL USER AREA OFFSET         76       (46)       2       GENTIO00 H'0' DEFAULT TIOA SIZE FOR MARDCOPY         778       (4E)       2       GENTORT OD         INTERACTIVE PARTITIONS (NO./SIZE/NORK FILES/CLASS)         80       (50)       0       GENPAREN ALL         INTERACTIVE PARTITION INFORMATION FORMAT         INTERACTIVE PARTITION INFORMATION FORMAT         INTERACTIVE PARTITION INFORMATION O         SA	OFFSE	T	LENGTH	NAME	TYPE	DESCRIPTION	
52       (34)       4       GENPRPIN ALI(0),CL3       PROGRAMMER LU FOR READ PUNCH         56       (38)       4       GENPRIOG ALI(0),CL3       PROGRAMMER LU FOR CONSOLE         60       (30)       1       ALI       RESERVED         61       (30)       2       GENRCH       XL2'0' DUMMY PUNCH         63       (37)       2       GENRCH       XL2'0' DUMMY PUNCH         65       (41)       2       GENRCH       XL2'0' DUMMY PRINTER         69       (45)       2       GENRORI       XL2'0' DUMMY PRINTER         69       (45)       2       GENRORS XL2'0' DUMMY PRINTER         74       (44)       2       GENTCOPS B       TERMINAL CTRL DYSIDEFAULT         74       (44)       2       GENTIOOS H'0' DEFAULT TIOA SIZE FOR HARDOPY         778       (4C)       2       GENTATIN OD         INTERACTIVE PARTITION INFORMATION FORMAT         HOTORO H'0' DEFAULT TIOA SIZE FOR HARDOPY         78       (4C)       2       GENPAREN OD         INTERACTIVE PARTITION INFORMATION FORMAT         HOTORO H'0' DEFAULT TIOA SIZE FOR HARDOPY         400       (0)       1       GENPAREN OD <td colspane:<="" t<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td></td>	<td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
56       (38)       4       GENPRLOG       AL1 (0), CL3 PROGRAMMER LU FOR CONSOLE         60       (30)       1       AL1 RESERVED         61       (30)       2       GENPCH XL2'0' DUMMY PARADER 1         63       (37)       2       GENRDR1 XL2'0' DUMMY PEADER 1         65       (41)       2       GENRDR1 XL2'0' DUMMY PEADER 1         65       (43)       2       GENRDR1 XL2'0' DUMMY PEADER 1         66       (45)       2       GENROLA LA2(0) NO. OF RECORDS IN PRINT SPOOL         71       (47)       1       GENSTOLA LA2(0) NO. OF RECORDS IN PRINT SPOOL         74       (4A)       2       GENTCOPS H'0' TERNINAL CTRL USER AREA OFFSET         76       (4C)       2       GENTIOGO H'0' DEFAULT TIOA SIZE FOR HARDCOPY         778       (4E)       2       GENTIONO H'0' DEFAULT TIOA SIZE FOR SEQENTL DEVICE         INTERACTIVE PARTITION INFORMATION FORMAT         ***********************************							
60       (3C)       1       AL1       RESERVED         61       (3D)       2       GENPCH       XL2'0'       DUMMY PUNCH         63       (3F)       2       GENRDR1       XL2'0'       DUMMY READER 1         65       (41)       2       GENRDR1       XL2'0'       DUMMY READER 2         67       (43)       2       GENRDR1       XL2'0'       DUMMY PRINTER         69       (45)       2       GENRDER       XL2'0'       DUMMY PRINTER         69       (45)       2       GENTOUPS B       TERMINAL CTRL SYSTEM C=CIS T=TTF         72       (48)       2       GENTOUPS B       TERMINAL CTRL SYSTEM C=CIS T=TTF         74       (4A)       2       GENTOUPS B       TERMINAL CTRL SYSTEM C=CIS T=TTF         74       (4A)       2       GENTOUPS B       TERMINAL CTRL SYSTEM C=CIS T=TTF         74       (4A)       2       GENTIOUPS B       TERMINAL CTRL SYSTEM C=CIS T=TTF         75       (4E)       2       GENTIOUPS B       TERMINAL CTRL SYSTEM C=CIS T=TTF         75       (4E)       2       GENTIOUPS B'       TERMINAL CTRL SYSTEM C=CIS T=TTF         76       (4E)       2       GENTIOND       INTERACTIVE PARTITION SIZE <t< td=""><td>52</td><td></td><td>4</td><td></td><td></td><td></td></t<>	52		4				
61       (3D)       2       GENPCH       XL2'0'       DUMMY PRADER 1         63       (3F)       2       GENROR1       XL2'0'       DUMMY READER 1         65       (41)       2       GENROR2       XL2'0'       DUMMY PRINTER         67       (43)       2       GENSPOL       AL2(0)       NO. OF RECORDS IN PRINT SPOOL         71       (47)       1       GENSYSTM       CL1       TERMINAL CTRL USER AREA OFFSET         76       (40)       2       GENTCOPS       B       TERMINAL CTRL USER AREA OFFSET         76       (42)       2       GENTIO40       H'0'       DEFAULT TIOA SIZE FOR HARDOPY         778       (4E)       2       GENTATIONO       H'0'       DEFAULT TIOA SIZE FOR SEQENTIL DEVICE         JATERACTIVE PARTITIONS (NO./SIZE/WORK FILES/CLASS)         36 INTERACTIVE PARTITION INFORMATION FORMAT         INTERACTIVE PARTITION INFORMATION FORMAT         INTERACTIVE PARTITION INFORMATION SIZE         INTERACTIVE PARTITION INFORMATION				GENPRLOG			
63       (3F)       2       GENRDR1       XL2'0'       DUMMY READER 1         65       (41)       2       GENRDR2       XL2'0'       DUMMY PRINTER         67       (43)       2       GENRDR2       XL2'0'       DUMMY PRINTER         69       (45)       2       GENSPOL       AL2(0)       NO. OF RECORDS IN PRINT SPOOL         71       (47)       1       GENSPSTM       CL1       TERMINAL CTRL UPSI DEFAULT         74       (4A)       2       GENTCOPS       H'0'       TERMINAL CTRL USER AREA OFFSET         76       (4C)       2       GENTIOAO       H'0'       DEFAULT TIOA SIZE FOR HARDCOPY         778       (4E)       2       GENTIONO       H'0'       DEFAULT TIOA SIZE FOR SEQENTL DEVICE         JOINTERACTIVE PARTITIONS (NO./SIZE/WORK FILES/CLASS)         80       (50)       0       GENPARTN       OD         INTERACTIVE PARTITION INFORMATION FORMAT         HOI (1)       .2       GENPAREY ALL PARTITION NO. 0-9 A-2         HOI (1)       .2       GENPAREY ALL PARTITION NO. 0-9 A-2         INTERACTIVE PARTITION INFORMATION         INTERACTIVE PARTITION INFORMATION         INTERACTIVE PARTITION INFORMAT							
65       (41)       2       GENRDR2       XL2'0'       DUMMY READER 2         67       (43)       2       GENPRT       XL2'0'       DUMMY PRINTER         69       (45)       2       GENSPOL       AL2(0) NO. OF       RECORDS IN PRINT SPOL         71       (47)       1       GENSYSTM       CL1       TERNINAL CTRL SYSTEM C=CICS T=TTF         72       (48)       2       GENTCUPS B       TERNINAL CTRL USER AREA OFFSET         76       (4C)       2       GENTIO40       H'0'       DEFAULT TIOA SIZE FOR HARDCOPY         77       (4E)       2       GENTIO40       H'0'       DEFAULT TIOA SIZE FOR SEQENTL DEVICE         36 INTERACTIVE PARTITIONS (NO./SIZE/WORK FILES/CLASS)         80       (50)       0       GENPARID       C       PARTITION NO. 0-9 A-2         +01       (1)       2       GENPAREZ       AL2       PARTITION NO. 0-9 A-2         +01       (1)       2       GENPAREZ       AL2       PARTITION NO. 0-9 A-2         -101       1       GENPAREZ       AL2       PARTITION NO. 0-9 A-2         -101       1       GENPAREZ       AL2       PARTITION NO. 0-9 A-2          L							
67       (43)       2       GENPRT XL2'0' DUMMY PRINTER         69       (45)       2       GENSYSTM CL1       TERNINAL CTRL SYSTEM C-CICS T=TTF         71       (47)       1       GENSYSTM CL1       TERNINAL CTRL USSI DEFAULT         74       (4A)       2       GENTCOPS B       TERNINAL CTRL USER AREA OFFSET         76       (4C)       2       GENTIO40       H'0'       DEFAULT TIOA SIZE FOR HARCOPY         78       (4E)       2       GENTIO00       H'0'       DEFAULT TIOA SIZE FOR SEQENTL DEVICE							
69       (45)       2       GENSPOOL AL2(0) NO. OF RECORDS IN PRINT SPOOL         71       (47)       1       GENSYSTM CL1       TERMINAL CTRL SYSTEM C=CICS T=TTF         72       (48)       2       GENTCOPS B       TERMINAL CTRL USEI DEFAULT         74       (40)       2       GENTCOPS B''O'       TERMINAL CTRL USER ARA OFFSET         76       (40)       2       GENTIOUS H'O'       DEFAULT TIOA SIZE FOR SEQENTL DEVICE         36 INTERACTIVE PARTITIONS (NO./SIZE/WORK FILES/CLASS)         80       (50)       0       GENPARTN OD         INTERACTIVE PARTITION INFORMATION FORMAT         +00 (0)       1       GENPARTN OD         INTERACTIVE PARTITION INFORMATION NO. 0-9 A-Z         +01 (1)       2       GENPARSZ AL2       PARTITION SIZE         +03 (3)       1       GENPARVE AL1       PRE-ALLOCATED WORK FILES         +04       (4)       4       GENPARZ       CL4       PARTITION CLASSES         INTERACTIVE PARTITION INFORMATION         INTERACTIVE PARTITION INFORMATION         INTERACTIVE PARTITION NO.0-9 A-Z         +04       (4)       GENPARSZ AL2       PARTITION CLASSES         INTERACTIVE PARTITI							
71       (47)       1       GENSYSTM CL1       TERMINAL CTRL SYSTEM C=CICS T=TTF         72       (48)       2       GENTCUPS B       TERMINAL CTRL UPSI DEFAULT         74       (44)       2       GENTCOPS H'0'       TERMINAL CTRL UPSI DEFAULT         76       (4C)       2       GENTIO00 H'0'       DEFAULT TIOA SIZE FOR HARDCOPY         78       (4E)       2       GENTIO00 H'0'       DEFAULT TIOA SIZE FOR SEQENTL DEVICE-         36 INTERACTIVE PARTITIONS (NO./SIZE/WORK FILES/CLASS)         80 (50)       0       GENPARTN OD         INTERACTIVE PARTITION INFORMATION FORMAT         +00 (0)       1       GENPARTN ALL         10       PARTITION NO. 0-9 A-Z         +01       (1)       2       GENPARVE ALL       PARTITION SIZE         +03       (3)       1       GENPARVE ALL       PARTITION CLASSES         INTERACTIVE PARTITION INFORMATION         S0       (50)       8       PART1       X'FO', CL7       PARTITION 00         80       (50)       8       PART1       X'FO', CL7       PARTITION 01         9       66(0)       8       PART3       X'FO', CL7       PARTITION 02							
72       (48)       2       GENTCUPS B       TERNINAL CTRL UPSI DEFAULT         74       (4A)       2       GENTCOPS H'O'       TERNINAL CTRL USER AREA OFFSET         76       (4C)       2       GENTIO40 H'O'       DEFAULT TIOA SIZE FOR HARDCOPY         78       (4E)       2       GENTIO00 H'O'       DEFAULT TIOA SIZE FOR SEQENTL DEVICE         36 INTERACTIVE PARTITIONS (NO./SIZE/WORK FILES/CLASS)         80       (50)       0       GENPARTN OD         INTERACTIVE PARTITION INFORMATION FORMAT         +00       (0)       1       GENPARID C       PARTITION NO. 0-9 A-Z         +01       (1)       2       GENPARSZ AL2       PARTITION SIZE       -         +03       (3)       1       GENPARVE AL1       PRE-ALLOCATED WORK FILES         +04       (4)       4       GENPARVE AL1       PRE-ALLOCATED WORK FILES         +04       (4)       4       GENPARVE X'FI', CL7       PARTITION 00         88       (58)       8       PART3       X'F2', CL7       PARTITION 02         INTERACTIVE PARTITION INFORMATION							
74       (4A)       2       GENTCOFS       H'O'       TERMINAL CTRL USER AREA OFFSET         76       (4C)       2       GENTIO00       H'O'       DEFAULT TIOA SIZE FOR HARDCOPY         778       (4E)       2       GENTIO00       H'O'       DEFAULT TIOA SIZE FOR SEQENTL DEVICE         36       INTERACTIVE PARTITIONS (NO./SIZE/WORK FILES/CLASS)       36       INTERACTIVE PARTITION INFORMATION FORMAT         HOO (0)       1       GENPARID       C       PARTITION NO. 0-9 A-Z         +01       (1)       2       GENPARSZ       AL2       PARTITION SIZE         +03       (3)       1       GENPARVE AL1       PRE-ALLOCATED WORK FILES         +04       (4)       4       GENPARVE AL1       PARTITION OLOS         120       (50)       8       PAR							
76       (4C)       2       GENTI040       H'0'       DEFAULT TIOA SIZE FOR HARDCOPY         778       (4E)       2       GENTI000       H'0'       DEFAULT TIOA SIZE FOR SEQENTL DEVICE         36       INTERACTIVE PARTITIONS (NO./SIZE/WORK FILES/CLASS)         80       (50)       0       GENPARTN OD         INTERACTIVE PARTITION INFORMATION FORMAT         +00       (0)       1       GENPARTD       C         ARTITION NO. 0-9 A-2         +01       (1)       2       GENPARSZ       AL2         +03       (3)       1       GENPARKE       AL1       PRE-ALLOCATED WORK FILES         +04       (4)       4       GENPARCL       CL4       PARTITION CLASSES         INTERACTIVE PARTITION INFORMATION         SEGENTION STIZE         INTERACTIVE PARTITION INFORMATION         INTERACTIVE PARTITION INFORMATION         INTERACTIVE PARTITION NOTO CLASSES         INTERACTIVE PARTITION NOTO CLASSES         INTERACTIVE PARTITION OD         88       8       PART3       X'F2',CL7       PARTITION 02         104       (68)       8       PART5       X'F2',CL7       PARTITION 03							
278       (4E)       2       GENTIOOD       H'O'       DEFAULT TION SIZE FOR SEQENTL DEVICE         36       INTERACTIVE PARTITIONS (NO./SIZE/WORK FILES/CLASS)         80       (50)       0       GENPARTN OD         INTERACTIVE PARTITION INFORMATION FORMAT         +00       (0)       1       GENPARID C       PARTITION NO. 0-9 A-Z         +01       (1)       2       GENPARSZ AL2       PARTITION SIZE         +03       (3)       1       GENPARWF AL1       PRE-ALLOCATED WORK FILES         +04       (4)       4       GENPARCL CL4       PARTITION OLASSES         INTERACTIVE PARTITION INFORMATION         80         INTERACTIVE PARTITION INFORMATION         80         INTERACTIVE PARTITION INFORMATION         INTERACTIVE PARTITION INFORMATION         80         INTERACTIVE PARTITION NO.0-9 A-Z         •         INTERACTIVE PARTITION SIZE         •         INTERACTIVE PARTITION NO.0-9 A-Z         •         INTERACTIVE PARTITION INFORMATION         INTERACTIVE PARTITION NO.0-9 A-Z <td colspa<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td></td>	<td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
36 INTERACTIVE PARTITIONS (NO./SIZE/WORK FILES/CLASS)         80 (50)       0       GENPARTN OD         INTERACTIVE PARTITION INFORMATION FORMAT         +00 (0)       1       GENPARID C       PARTITION NO. 0-9 A-Z         +01 (1)       .2       GENPARSZ AL2       PARTITION SIZE         +03 (3)       1       GENPARVF AL1       PRE-ALLOCATED WORK FILES         +04 (4)       4       GENPARVE AL1       PRE-ALLOCATED WORK FILES         +04 (4)       4       GENPARVE PARTITION INFORMATION         INTERACTIVE PARTITION INFORMATION         80 (50) 8       PART1       X'FO',CL7       PARTITION 00         88 (58) 8       PART2       X'FI',CL7       PARTITION 02         104 (68) 8       PART4       X'F5',CL7       PARTITION 03         112 (70) 8       PART5       X'F4',CL7       PARTITION 04         120 (78) 8       PART6       X'F5',CL7       PARTITION 05       128       108       112         120 (78) 8       PART9       X'F6',CL7       PARTITION 05         122 (98) 8       PART10       X'F9',CL7       PARTITION 06       132       152       (58) 8       PART111       X'C1',CL7       P							
80 (50)       0       GENPARTN OD         INTERACTIVE PARTITION INFORMATION FORMAT         +00 (0)       1       GENPARID C       PARTITION NO. 0-9 A-2         +01 (1)       2       GENPARSZ AL2       PARTITION SIZE         +03 (3)       1       GENPARWF AL1       PRE-ALLOCATED WORK FILES         +04 (4)       4       GENPARCL CL4       PARTITION CLASSES         INTERACTIVE PARTITION INFORMATION         80 (50)       8       PART1       X'FO', CL7       PARTITION 00         80 (50)       8       PART2       X'F1', CL7       PARTITION 02       04         96 (60)       8       PART3       X'F2', CL7       PARTITION 02       04         104 (68)       8       PART4       X'F5', CL7       PARTITION 04       04         120 (78)       8       PART6       X'F5', CL7       PARTITION 05       05         128 (80)       8       PART9       X'F6', CL7       PARTITION 09       04         152 (98)       8       PART10       X'C1', CL7       PARTITION 10       05         152 (98)       8       PART111       X'C1', CL7       PARTITION 10       04         160 (A0)       8       PART13	?78	(4E)	2	GENTI000	Н'О'	DEFAULT TIOA SIZE FOR SEQENTL DEVICE	
INTERACTIVE PARTITION INFORMATION FORMAT           +00         (0)         1         GENPARID         C         PARTITION NO. 0-9 A-2           +01         (1)         2         GENPARSZ         AL2         PARTITION SIZE           +03         (3)         1         GENPARWF         AL1         PRE-ALLOCATED WORK FILES           +04         (4)         4         GENPARCL         CL4         PARTITION CLASSES           INTERACTIVE PARTITION INFORMATION           80         (50)         8         PART1         X'F0', CL7         PARTITION 00           88         (58)         8         PART2         X'F1', CL7         PARTITION 02           104         (68)         8         PART3         X'F2', CL7         PARTITION 03           112         (70)         8         PART5         X'F4', CL7         PARTITION 04           120         (78)         8         PART5         X'F4', CL7         PARTITION 05           128         (80)         8         PART5         X'F4', CL7         PARTITION 06           136         (88)         8         PART9         X'F6', CL7         PARTITION 07           144         (90)         8         PART			36 INTER	ACTIVE PAR	TITIONS	S (NO./SIZE/WORK FILES/CLASS)	
+00       (0)       1       GENPARID       C       PARTITION NO. 0-9 A-Z         +01       (1)       .2       GENPARSZ       AL2       PARTITION SIZE         +03       (3)       1       GENPARWF       AL1       PRE-ALLOCATED WORK FILES         +04       (4)       4       GENPARVF       AL1       PRE-ALLOCATED WORK FILES         +04       (4)       4       GENPARVE       CL4       PARTITION CLASSES         INTERACTIVE PARTITION INFORMATION         Set (4)         80       (50)       8       PART1       X'F0', CL7       PARTITION 01         96       (60)       8       PART3       X'F2', CL7       PARTITION 02         104       (68)       8       PART4       X'F5', CL7       PARTITION 03         112       (70)       8       PART5       X'F4', CL7       PARTITION 04         120       (78)       8       PART6       X'F5', CL7       PARTITION 05         128       (80)       8       PART9       X'F6', CL7       PARTITION 07         144       (90)       8       PART10       X'F9', CL7       PARTITION 08         152       (98)       8       PART111	80	(50)	0	GENPARTN	OD		
+01       1)       .2       GENPARSZ       AL2       PARTITION SIZE         +03       (3)       1       GENPARWF       AL1       PRE-ALLOCATED WORK FILES         +04       (4)       4       GENPARVE       CL4       PARTITION CLASSES         INTERACTIVE PARTITION INFORMATION         80       (50)       8       PART1       X'FO', CL7       PARTITION 00         86       (58)       8       PART2       X'F1', CL7       PARTITION 01         96       (60)       8       PART3       X'F2', CL7       PARTITION 02         104       (68)       8       PART4       X'F5', CL7       PARTITION 03         112       (70)       8       PART5       X'F7', CL7       PARTITION 04         120       (78)       8       PART6       X'F7', CL7       PARTITION 05         128       (80)       8       PART9       X'F8', CL7       PARTITION 06         136       (88)       8       PART9       X'F7', CL7       PARTITION 09         144       (90)       8       PART10       X'F7', CL7       PARTITION 10         152       (98)       8       PART10       X'C1', CL7       PARTITION 10			II	TERACTIVE	PARTITI	YION INFORMATION FORMAT	
+03       (3)       1       GENPARWF       AL1       PRE-ALLOCATED WORK FILES         +04       (4)       4       GENPARCL       CL4       PARTITION CLASSES         INTERACTIVE PARTITION INFORMATION         80       (50)       8       PART1       X'FO', CL7       PARTITION 00         88       (58)       8       PART2       X'F1', CL7       PARTITION 01         96       (60)       8       PART3       X'F2', CL7       PARTITION 02         104       (68)       8       PART4       X'F3', CL7       PARTITION 03         112       (70)       8       PART5       X'F4', CL7       PARTITION 04         120       (78)       8       PART6       X'F5', CL7       PARTITION 05         128       (80)       8       PART7       X'F6', CL7       PARTITION 06         136       (88)       8       PART9       X'F8', CL7       PARTITION 07         144       (90)       8       PART11       X'C1', CL7       PARTITION 10         152       (98)       8       PART11       X'C1', CL7       PARTITION 10         160       (A0)       8       PART12       X'C2', CL7       PARTITION 11 <td>+00</td> <td>(0)</td> <td>1</td> <td>GENPARID</td> <td>С</td> <td>PARTITION NO. 0-9 A-Z</td>	+00	(0)	1	GENPARID	С	PARTITION NO. 0-9 A-Z	
+04       4       GENPARCL CL4       PARTITION CLASSES         INTERACTIVE PARTITION INFORMATION         80       (50)       8       PART1       X'FO', CL7       PARTITION 00         86       (58)       8       PART2       X'FI', CL7       PARTITION 01         96       (60)       8       PART2       X'F1', CL7       PARTITION 02         104       (68)       8       PART4       X'F3', CL7       PARTITION 03         112       (70)       8       PART5       X'F4', CL7       PARTITION 04         120       (78)       8       PART5       X'F6', CL7       PARTITION 05         128       (80)       8       PART7       X'F6', CL7       PARTITION 06         136       (88)       8       PART9       X'F6', CL7       PARTITION 07         144       (90)       8       PART10       X'F9', CL7       PARTITION 10         160       (A0)       8       PART11       X'C1', CL7       PARTITION 10         164       (B0)       8       PART12       X'C2', CL7       PARTITION 10         168       (A8)       8       PART12       X'C2', CL7       PARTITION 11         176 <td< td=""><td>+01</td><td>(1)</td><td>.2</td><td>GENPARSZ</td><td>AL2</td><td>PARTITION SIZE</td></td<>	+01	(1)	.2	GENPARSZ	AL2	PARTITION SIZE	
INTERACTIVE PARTITION INFORMATION           80         (50)         8         PART1         X'FO', CL7         PARTITION 00           88         (58)         8         PART2         X'F1', CL7         PARTITION 01           96         (60)         8         PART3         X'F2', CL7         PARTITION 02           104         (68)         8         PART4         X'F3', CL7         PARTITION 03           112         (70)         8         PART5         X'F4', CL7         PARTITION 04           120         (78)         8         PART6         X'F5', CL7         PARTITION 04           120         (78)         8         PART5         X'F6', CL7         PARTITION 04           120         (78)         8         PART5         X'F6', CL7         PARTITION 05           128         (80)         8         PART9         X'F6', CL7         PARTITION 07           144         (90)         8         PART9         X'F9', CL7         PARTITION 08           152         (98)         8         PART11         X'C1', CL7         PARTITION 10           166         (A6)         8         PART12         X'C2', CL7         PARTITION 12           168	+03	(3)	1	GENPARWF	AL1	PRE-ALLOCATED WORK FILES	
80       (50)       8       PART1       X'FO',CL7       PARTITION 00         88       (58)       8       PART2       X'F1',CL7       PARTITION 01         96       (60)       8       PART3       X'F2',CL7       PARTITION 02         104       (68)       8       PART4       X'F3',CL7       PARTITION 02         104       (68)       8       PART4       X'F3',CL7       PARTITION 03         112       (70)       8       PART5       X'F4',CL7       PARTITION 04         120       (78)       8       PART5       X'F5',CL7       PARTITION 05         128       (80)       8       PART7       X'F6',CL7       PARTITION 06         136       (88)       8       PART9       X'F5',CL7       PARTITION 07         144       (90)       8       PART9       X'F8',CL7       PARTITION 08         152       (98)       8       PART10       X'C1',CL7       PARTITION 10         160       (A0)       8       PART12       X'C2',CL7       PARTITION 10         168       (A8)       8       PART13       X'C3',CL7       PARTITION 12         184       (B6)       8       PART15	+04	(4)	4	GENPARCL	CL4	PARTITION CLASSES	
88       (58)       8       PART2       X'F1',CL7       PARTITION 01         96       (60)       8       PART3       X'F2',CL7       PARTITION 02         104       (68)       8       PART4       X'F2',CL7       PARTITION 02         104       (68)       8       PART4       X'F2',CL7       PARTITION 03         112       (70)       8       PART5       X'F4',CL7       PARTITION 04         120       (78)       8       PART6       X'F5',CL7       PARTITION 05         128       (80)       8       PART6       X'F5',CL7       PARTITION 06         136       (88)       8       PART6       X'F7',CL7       PARTITION 07         144       (90)       8       PART9       X'F8',CL7       PARTITION 07         144       (90)       8       PART9       X'F8',CL7       PARTITION 07         144       (90)       8       PART10       X'F9',CL7       PARTITION 07         160       (A0)       8       PART11       X'C1',CL7       PARTITION 10         168       (A8)       8       PART12       X'C2',CL7       PARTITION 11         176       (B0)       8       PART13 <td< td=""><td></td><td></td><td></td><td>INTERACT</td><td>IVE PAR</td><td>RTITION INFORMATION</td></td<>				INTERACT	IVE PAR	RTITION INFORMATION	
96       (60)       8       PART3       X'F2',CL7       PARTITION 02         104       (68)       8       PART4       X'F3',CL7       PARTITION 03         112       (70)       8       PART5       X'F4',CL7       PARTITION 04         120       (78)       8       PART5       X'F4',CL7       PARTITION 04         120       (78)       8       PART6       X'F5',CL7       PARTITION 05         128       (80)       8       PART7       X'F6',CL7       PARTITION 06         136       (88)       8       PART8       X'F7',CL7       PARTITION 07         144       (90)       8       PART9       X'F8',CL7       PARTITION 08         152       (98)       8       PART10       X'F9',CL7       PARTITION 10         164       (40)       8       PART12       X'C1',CL7       PARTITION 10         168       (A6)       8       PART12       X'C2',CL7       PARTITION 11         176       (B0)       8       PART13       X'C3',CL7       PARTITION 12         184       (B8)       8       PART14       X'C4',CL7       PARTITION 13         192       (C0)       8       PART16	80	(50)	8	PART1	X'F0',	,CL7 PARTITION 00	
104       (68)       8       PART4       X'F3',CL7       PARTITION 03         112       (70)       8       PART5       X'F4',CL7       PARTITION 04         120       (78)       8       PART5       X'F4',CL7       PARTITION 04         120       (78)       8       PART5       X'F4',CL7       PARTITION 04         120       (78)       8       PART6       X'F5',CL7       PARTITION 05         128       (60)       8       PART7       X'F6',CL7       PARTITION 06         136       (88)       8       PART8       X'F7',CL7       PARTITION 07         144       (90)       8       PART9       X'F6',CL7       PARTITION 07         144       (90)       8       PART10       X'P9',CL7       PARTITION 08         152       (98)       8       PART11       X'C1',CL7       PARTITION 10         160       (A0)       8       PART12       X'C2',CL7       PARTITION 11         176       (B0)       8       PART13       X'C3',CL7       PARTITION 12         184       (B8)       8       PART14       X'C4',CL7       PARTITION 13         192       (C0)       8       PART16	88	(58)	8	PART2	X'F1',	,CL7 PARTITION 01	
112       (70)       8       PART5       X'F4',CL7       PARTITION 04         120       (78)       8       PART6       X'F5',CL7       PARTITION 05         128       (80)       8       PART7       X'F6',CL7       PARTITION 05         128       (80)       8       PART7       X'F6',CL7       PARTITION 06         136       (88)       8       PART8       X'F7',CL7       PARTITION 07         144       (90)       8       PART9       X'F6',CL7       PARTITION 07         144       (90)       8       PART9       X'F6',CL7       PARTITION 07         144       (90)       8       PART10       X'F9',CL7       PARTITION 08         152       (98)       8       PART10       X'F9',CL7       PARTITION 10         166       (A0)       8       PART11       X'C1',CL7       PARTITION 11         176       (B0)       8       PART13       X'C3',CL7       PARTITION 12         184       (B8)       8       PART15       X'C3',CL7       PARTITION 13         192       (C0)       8       PART16       X'C6',CL7       PARTITION 14         200       (C8)       8       PART17	96	(60)	8	PART3	X'F2',	,CL7 PARTITION 02	
120       (78)       8       PART6       X'F5',CL7       PARTITION 05         128       (80)       8       PART7       X'F6',CL7       PARTITION 06         136       (88)       8       PART8       X'F7',CL7       PARTITION 07         144       (90)       8       PART9       X'F8',CL7       PARTITION 08         152       (98)       8       PART10       X'F9',CL7       PARTITION 09         160       (A0)       8       PART11       X'C1',CL7       PARTITION 10         168       (A8)       8       PART12       X'C2',CL7       PARTITION 11         176       (B0)       8       PART13       X'C3',CL7       PARTITION 12         184       (B8)       8       PART14       X'C4',CL7       PARTITION 14         200       (C6)       8       PART15       X'C5',CL7       PARTITION 15         201       (C0)       8       PART16       X'C6',CL7       PARTITION 15         201       (C0)       8       PART16       X'C6',CL7       PARTITION 14         200       (C8)       8       PART16       X'C6',CL7       PARTITION 15         201       (D0)       8       PART16	104	(68)	8	PART4	X'F3',	,CL7 PARTITION 03	
128       (80)       8       PART7       X'F6',CL7       PARTITION 06         136       (88)       8       PART8       X'F7',CL7       PARTITION 07         144       (90)       8       PART9       X'F8',CL7       PARTITION 07         144       (90)       8       PART9       X'F8',CL7       PARTITION 07         144       (90)       8       PART9       X'F8',CL7       PARTITION 08         152       (98)       8       PART10       X'F9',CL7       PARTITION 09         160       (A0)       8       PART11       X'C1',CL7       PARTITION 10         168       (A8)       8       PART12       X'C2',CL7       PARTITION 11         176       (B0)       8       PART13       X'C3',CL7       PARTITION 12         184       (B8)       8       PART15       X'C5',CL7       PARTITION 13         192       (C0)       8       PART16       X'C6',CL7       PARTITION 14         200       (C8)       8       PART16       X'C6',CL7       PARTITION 15         208       (D0)       8       PART18       X'C6',CL7       PARTITION 17	112	(70)	8	PART5	X'F4',	,CL7 PARTITION 04	
136       (88)       8       PART8       X'F7',CL7       PARTITION 07         144       (90)       8       PART9       X'F8',CL7       PARTITION 08         152       (98)       8       PART0       X'F9',CL7       PARTITION 09         160       (A0)       8       PART10       X'F9',CL7       PARTITION 09         160       (A0)       8       PART11       X'C1',CL7       PARTITION 10         168       (A8)       8       PART12       X'C2',CL7       PARTITION 11         176       (B0)       8       PART13       X'C3',CL7       PARTITION 12         184       (B8)       8       PART14       X'C4',CL7       PARTITION 13         192       (C0)       8       PART15       X'C5',CL7       PARTITION 14         200       (C8)       8       PART16       X'C6',CL7       PARTITION 15         208       (D0)       8       PART17       X'C6',CL7       PARTITION 16         216       (D8)       8       PART18       X'C6',CL7       PARTITION 17	120	(78)	8	PART6	X'F5',	,CL7 PARTITION 05	
144       (90)       8       PART9       X'F8',CL7       PARTITION 08         152       (98)       8       PART10       X'F9',CL7       PARTITION 09         160       (A0)       8       PART11       X'C1',CL7       PARTITION 10         168       (A8)       8       PART12       X'C2',CL7       PARTITION 11         176       (B0)       8       PART13       X'C3',CL7       PARTITION 12         184       (B8)       8       PART14       X'C3',CL7       PARTITION 13         192       (C0)       8       PART15       X'C5',CL7       PARTITION 14         200       (C8)       8       PART16       X'C6',CL7       PARTITION 15         208       (D0)       8       PART17       X'C7',CL7       PARTITION 16         216       (D8)       8       PART18       X'C6',CL7       PARTITION 17	128	(80)	8	PART7	X'F6',	,CL7 PARTITION 06	
152       (98)       8       PART10       X'F9',CL7       PARTITION 09         160       (A0)       8       PART11       X'C1',CL7       PARTITION 10         168       (A8)       8       PART12       X'C2',CL7       PARTITION 11         176       (B0)       8       PART12       X'C2',CL7       PARTITION 11         176       (B0)       8       PART13       X'C3',CL7       PARTITION 12         184       (B8)       8       PART14       X'C4',CL7       PARTITION 13         192       (C0)       8       PART15       X'C5',CL7       PARTITION 14         200       (C8)       8       PART16       X'C6',CL7       PARTITION 15         208       (D0)       8       PART17       X'C7',CL7       PARTITION 16         216       (D8)       8       PART18       X'C6',CL7       PARTITION 17	136	(88)	· 8	PART8	X'F7',	,CL7 PARTITION 07	
160       (A0)       8       PART11       X'C1',CL7       PARTITION 10         168       (A8)       8       PART12       X'C2',CL7       PARTITION 11         176       (B0)       8       PART13       X'C3',CL7       PARTITION 12         184       (B8)       8       PART14       X'C4',CL7       PARTITION 13         192       (C0)       8       PART15       X'C5',CL7       PARTITION 14         200       (C8)       8       PART16       X'C6',CL7       PARTITION 15         208       (D0)       8       PART17       X'C7',CL7       PARTITION 16         216       (D8)       8       PART18       X'C6',CL7       PARTITION 17	144	(90)	8	PART9	X'F8',	,CL7 PARTITION 08	
168       (A8)       8       PART12       X'C2',CL7       PARTITION 11         176       (B0)       8       PART13       X'C3',CL7       PARTITION 12         184       (B8)       8       PART14       X'C3',CL7       PARTITION 12         184       (B8)       8       PART14       X'C4',CL7       PARTITION 13         192       (C0)       8       PART15       X'C5',CL7       PARTITION 14         200       (C8)       8       PART16       X'C6',CL7       PARTITION 15         208       (D0)       8       PART17       X'C7',CL7       PARTITION 16         216       (D8)       8       PART18       X'C8',CL7       PARTITION 17	152	(98)	8	PART10	X'F9',	,CL7 PARTITION 09	
176       (B0)       8       PARTI3       X'C3',CL7       PARTITION 12         184       (B8)       8       PARTI4       X'C4',CL7       PARTITION 13         192       (C0)       8       PART15       X'C5',CL7       PARTITION 14         200       (C8)       8       PART16       X'C6',CL7       PARTITION 15         208       (D0)       8       PART17       X'C7',CL7       PARTITION 16         216       (D8)       8       PART18       X'C8',CL7       PARTITION 17	160	(AO)	8	PART11	X'C1'	,CL7 PARTITION 10 4 📝	
184       (B8)       8       PART14       X'C4',CL7       PARTITION 13         192       (C0)       8       PART15       X'C5',CL7       PARTITION 14         200       (C8)       8       PART16       X'C6',CL7       PARTITION 15         208       (D0)       8       PART17       X'C7',CL7       PARTITION 16         216       (D8)       8       PART18       X'C8',CL7       PARTITION 17	168	(A8)	8	PART12	X'C2'	,CL7 PARTITION 11	
192       (CO)       8       PART15       X'CS',CL7       PARTITION 14         200       (C8)       8       PART16       X'CG',CL7       PARTITION 15         208       (D0)       8       PART17       X'C7',CL7       PARTITION 16         216       (D8)       8       PART18       X'C8',CL7       PARTITION 17	176	(BO)	8	PART13	X'C3',	,CL7 PARTITION 12	
200         (C8)         8         PART16         X'C6',CL7         PARTITION 15           208         (D0)         8         PART17         X'C7',CL7         PARTITION 16           216         (D8)         8         PART18         X'C8',CL7         PARTITION 17	184	(B8)	8	PART14	X'C4',	,CL7 PARTITION 13	
208         (D0)         8         PART17         X'C7',CL7         PARTITION 16         216         (D8)         8         PART18         X'C8',CL7         PARTITION 17	192	(CO)	8	PART15	X'C5'	,CL7 PARTITION 14	
216 (D8) 8 PART18 X'C8',CL7 PARTITION 17	200	(C8)	8	PART16	X'C6'	,CL7 PARTITION 15	
	208	(D0)	8	PART17	X'C7'	,CL7 PARTITION 16	
224 (EO) 8 PART19 X'C9',CL7 PARTITION 18	216	(D8)	8	PART18	X'C8'	,CL7 PARTITION 17	
	224	(E0)	8	PART19	X'C9'	,CL7 PARTITION 18	

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	OFFSET	LENGTH	NAME	TYPE DESC	RIPTION
	232 (E8)	8	PART20	X'D1',CL7	PARTITION 19
6	40 (F0)	8	PART21	X'D2',CL7	PARTITION 20
-	48 (F8)	8	PART22	X'D3',CL7	PARTITION 21
	256 (100)	8	PART23	X'D4',CL7	PARTITION 22
	264 (108)	8	PART24	X'D5',CL7	PARTITION 23
	272 (110)	8	PART25	X'D6',CL7	PARTITION 24
	280 (118)	8	PART26	X'D7',CL7	PARTITION 25
6	<sup>-</sup> 788 (120)	8	PART27	X'D8',CL7	PARTITION 26
-	<i>96</i> (128)	8	PART28	X'D9',CL7	PARTITION 27
	304 (130)	8	PART29	X'E2',CL7	PARTITION 28
	312 (138)	8	PART30	X'E3',CL7	PARTITION 29
	320 (140)	8	PART31	X'E4',CL7	PARTITION 30
	328 (148)	8	PART32	X'E5',CL7	PARTITION 31
1	336 (150)	8	PART33	X'E6',CL7	PARTITION 32
ĺ.	_44 (158)	8	PART34	X'E7',CL7	PARTITION 33
	352 (160)	8	PART35	X'E8',CL7	PARTITION 34
	360 (168)	8	PART36	X'E9',CL7	PARTITION 35
	368 (170)	) 4		F'0'	VERSION ID (RESERVED)
	372 (174)	12	GENPATCH	3F'0'	PATCH SPACE
	384 (180)	) 4	GENLAST	CL4'ÈÑD	USED FOR CONTROL LOAD CHECK
+	388 (184)	) 0	GENEND	0F'0'	END OF AREA

## INTERACTIVE PARTITION INFORMATION CONTROL BLOCK

### DSECT NAME: DTSPICB

THE CONTROL BLOCK CONTAINS OF TWO PARTS, WHERE THE FIRST PART IS TO CONTROL THE PARTITION SIZE AND STATUS. ALSO IF PRINT AND PUNCH MEMBERS HAVE BEEN SPECIFIED, THE PRINT/PUNCH MEMBER CONTROL INFORMATION IS HOLD IN THIS AREA. IF THE ASSOCIATED INTERACTIVE PARTITION IS ACTIVE, THE CONTROL BLOCK CONTAINS AN ADDRESS TO THE TASK AREA AND THE INITIATING RQE ENTRY.

THE SECOND PART IS A PSW AND REGISTER SAVE AREA WHICH CONTAINS THE STATUS OF THE INTERACTIVE PARTITION AT INTERRUPT TIME IF SERVICE FROM THE SECOND LEVEL INTERRUPT HANDLER IS REQUIRED. THE SAVED REGISTERS ARE NOT SAVED IN REG. 9 TO 8 ORDER BUT IN REG. 2 TO 1 ORDER.

THE PICB QUEUE IS IN PFIXED STORAGE DUE THE WHOLE ICCF SESSION, TO BE SURE THAT IF THE HIGH TASK IS WORKING AT IT THAT NO PAGE FAULT INTERRUPT. MIGHT OCCUR. THE FIRST BLOCK IS ALWAYS FOR THE TERMINAL CONTROL PARTITION WHICH HAS THE HIGHEST SPACE WITHIN THE ICCF PARTITION. GETVIS SPACE FOR AN INTERACTIVE PARTITION IS ALWAYS INSIDE ITSELF, WHERE THE GETVIS SPACE FOR THE TERMINAL CONTROL INTERACTIVE PARTITION IS THE GETVIS SPACE FOR THE ICCF PARTITION.

OFFSET	LENGTH	NAME	TYPE	DESCRIPTION	*
0 (0)	8	PCBRCB	CL8	RESOURCE CONTROL BLOCK	
	* * * *	PRECEDES	ONLY TH	E 1ST PICB ENTRY	*

START OF PSEUDO PARTITION ENTRY

8	(8)	4	PCBSTART	F	PARTITION START ADDRESS
12	(C)	4	PCBSTOP	F	PARTITION END ADDRESS
16	(10)	4	PCBALTST	F	START OF PARTITION IF START AREA USF
20	(14)	1	PCBGVCTR	С	GETVIS CONTROL BYTE
				X'01'	ON IF NOT FIRST GETVIS IN PARTITION
21	(15)	3		CL3	PARTITION END IF GETVIS SUPPORT
24	(18)	4	PCBECB	F	ECB USED FOR CONVERSATIONAL READS.
					THIS ECB IS POSTED BY DISTX03.
28	(1C)	4	PCBTQE	F	ADDR OF TASK AREA
32	(20)	4	PCBRQE	F	ADDR OF RQE WHO INITIATED
.36	(24)	4	PCBAUX	F	ADDR OF PICB EXTENSION (DTSAUXAR)

How to locate: Displ. X'14' (NCSPICB) of the MCSA contains the addr. of the PICB. (Reg.11 will normally point to the PICB) or At start of interactive partition after RQE, preceded by identifier 'DTSPICB'.

	OFFS	ЕT	LENGTH	NAME	TYPE	DESCRIPTION
	40	(28)	4	PCBCOMRG	F	ADDR OF COMREG AT PARTITION START
(:	44	(2C)	4	PCBSTTIM	F	START TIME IN PSEUDO PARTITION
	48	(30)	4	PCBACTIM	F	TIME OF LAST ACTIVITY
	52	(34)	4	PCBCLASS	CL4	UP TO 4 CLASSES FOR PARTITION
	56	(38)	1	PCBPROT	С	PARTITION PROTECT KEY
	57	(39)	1	PCBSTAT	с	PARTITION STATUS
					x'00'	PARTITION BLOCK IS NOT IN USE
1					X'40'	PARTITION BLOCK IS IN USE
(and the second					X'41'	HI LEVEL TIMER INTERRUPT TASK HAS
						DETERMINED THAT THE PARTITION
						SHOULD BE ROLLED OUT BUT A T/S
						SYSTEM RESOURCE WAS ENQ'D SO IT
						COULD NOT BE ROLLED OUT AT THAT
						TIME. THEREFORE, POST DISCHIGH.
(		(3A)	1	PCBANYO	с	BITS SET IF ANY RESOURCE ASSOCIATED
100	<b>1</b> 50	(54)	1	TODANIQ	0	WITH THE TASK IS ENO'D
					X'01'	BG PROGRAM IN MUST-COMPLETE STATUS
					X'02'	THE PSEUDO PARTITION IS QUEUED ON
						AN INTERNAL RESOURCE AND MAY NOT
						BE ROLLED OUT.
					X'04'	PARTITION QUEUED ON RQE TABLE
					X'10'	TERMINATOR IS IN PROGRESS
•					X'20'	MAIN COMREG IS ENQUEUED OR SPOOL
					A 20	SPACE ALLOCATION IS IN PROGRESS
					X'80'	EOJ/CANCEL IN PROGRESS FOR PARTITION
	59	(3B)	1	PCBIDNT	C	PARTITION NO. 1 2 3 4 5 ETC.
٠	60	(3C)	1	PCBOFFST	c	PARTITION OFFSET
	61	(3D)	0	PCBASSGN	0CL5	DEVICE ASSIGN BUCKETS
	61	(3D)	1	PCBREADR	C	ASSIGNMENT OF READER
	62	(3E)	1	PCBPRINT	c	ASSIGNMENT OF PRINTER
	63	(3E)	1	PCBPUNCH	с	ASSIGNMENT OF PUNCH
í.	.64	(40)	1	PCBLOG	с	ASSIGNMENT OF LOG DEVICE
	65	(40)	1	PCBPIN	c	PUNCH INPUT ASSIGNMENT
	66	(41)	1	PCBPIN	С	DYNAMIC SPACE ALLOCATION SWITCH
	00	(42)	1	robbinor	X'01'	TEMPORARY SPACE ALLOCATED
					X'02'	DISP=PASS SPACE ALLOCATED
					X'04'	PERMANENT SPACE ALLOCATED
					X'FF'	ALL BITS ON IS NULL CONDITION
	67	(43)	1	PCBOPTN	C	MISCELLANEOUS CONTROL BITS
	.07	(43)	1	FOBOTIN	X'01'	USER IS RUNNING IN SVCP ROUTINE
					X'02'	ABEND REGISTER PSW STORED
					X'F0'	4 HI ORDER BITS ARE PRE-ALLOCATED
					A LO	WORKFILE CONTROL BITS
1	68	(44)	2	PCBSYS1	CL2	FIRST SYS NO. ASSIGNED TO DTSFILE
	68	(44)	2	PCBSYS1 PCBSYS2	CL2 CL2	SECOND SYS NO. ASSIGNED TO DISFILE
				PCBSYS2 PCBPUN1	7F	CONTROL FOR PUNCH TO LIB
	72	(48)			7F 7F	CONTROL FOR PONCH TO LIB CONTROL FOR PRINT TO LIB
	100	(64)	28	PCBPRT1	/1	CONTROL FOR PRINT TO LIB

OFFSE	ст 	LENGTH	NAME	TYPE	DESCRIPTION
		BOTH	PRECEEDING	AREAS	HAVE THE FOLLOWING FORMAT:
+00	(0)	4		F	FIRST RECORD IN CHAIN FOR MEMBER
+04	(4)	4		F	NEXT RECORD IN CHAIN FOR MEMBER
+08	(8)	1		С	C 'L' IF SYSLLG, X'00' IF NOT
+09	(9)	3		AL3	MAX NO. OF RECORDS FROM /FILE MAXR=
+12	(C)	1		С	C 'J' IF MEMBER FOR JOB, X'00' IF NC C 'C' IF MAXR HAS BEEN REACHED
+13	(D)	3		AL3	NO. OF RECORDS USED SO FAR FOR MEMBER
+16	(10)	4		AL4	RECORD NO. OF DIRETORY RECORD
+20	(14)	8		8C	MEMBER NAME WHICH GETS PRT/PUN OUTPUT
					T INFO TO DISCSVCP FROM SVC HANDLER
	(80)		AUXPSW	D ' F	SAVE SVC OLD PSW AT SVC INTERRUPT REG.2
	(88) (8C)		AUXREG2 AUXREG3	F	REG.2 REG.3
40	(90)		AUXREG3	F	REG.4
	(90)		AUXREG5	F	REG. 5
52	(98)		AUXREG6	F	REG. 6
56	(90)		AUXREG7	F	REG. 7
60	(A0)		AUXREG8	F	REG.8
64	(A4)		AUXREG9	F	REG.9
.68	(A8)		AUXREG10	F	REG. 10
172	(AC)		AUXREG11	F	REG.11
176	(BO)		AUXREG12	F	REG.12
180	(B4)	4	AUXREG13	F	REG.13
L84	(B8)	4	AUXREG14	F	REG. 14
188	(BC)	4	AUXREG15	F	REG.15
192	(CO)	4	AUXREG0	F	REG.0
196	(C4)	4	AUXREG1	F	REG.1
200	(C8)	4	AUXLST2	F	SAVE LAST SVC2 INTERRUPT ADDR
204	(CC)	4	AUXPARMC	F	ADDR OF PARMLST 1F DTSCLPRC IN I.A.P.
208	(D0)		AUXSVCI	С	SVC INTERRUPT CODE
209	(D1)	1	AUXFLGP	С	VARIOUS INFORMATION FOR/FROM
					2ND-LEVEL SVC INTERCEPTOR
				X'01'	
210	(D2)		PCBXBCNT	Н	COUNT OF XECBS
212	(D4)		PCBUSCNT	Н	COUNT OF NON-RELEASED USE REQUESTS
214	(D6)		PCBPKEY	X	PSW KEY SAVED BY MC 0, RESTORD BY MC 3
215	(D7)			С	UNUSED
216	(D8)		PCBPATCH		PATCH AREA
232	(E8)	0	PCIBŞ	0F	END OF TABLE

## INTERACTIVE PARTITION CONTROL BLOCK EXTENSION

## ECT NAME: DTSAUXAR

THE CONTROL BLOCK CONTAINS OF SIX PARTS. THE FIRST PART IS USED AS PSW AND REGISTER SAVE AREA IF A TASK IS ROLL-OUT ELIGIBLE (IT IS THAN A COPY FROM THE TCQ STARTING AT LABEL TCQSAVE). THE SECOND PART IS USED TO CONTROL /INCLUDE CHAINING AND NESTING. THE THIRD FOURTH AND FIFTH SECTION WTAINS MISCELLANEOUS CONTROL INFORMATION. THE SIXTH PART CONTAINS THE MAREG FOR THE INTERACTIVE PARTITION.

THE PICB EXTENSIONS ARE PFIXED BY THE HIGH PRIORITY TASK WHEN HE IS WORKING ON IT TO BE SURE THE NO PAGE FAULT INTERRUPT MIGHT OCCUR DURING UPDATE OF THIS CONTROL BLOCK.

FSET	LENGTH	NAME	TYPE	DESCRIPTION	

SAVE AREA FOR SWAPPING WITH TASK SAVE WHEN ROLL-OUT OCCURS

	0	(0)	0	AUXSAVE	0CL174	ATTACH SAVE AREA
	0	(0)	8	AUXSVNAM	CL8	NAME OF TASK IN PARTITION
•	8	(8)	8	AUXSVPSW	CL8	SAVED PSW
	16	(10)	64	AUXSVRGS	16F	REGISTER SAVE AREA 9-8
	80	(50)	48		12F	FP REGISTER SAVE AND WORK AREA
	128	(80)	8	AUXRSPSW	D	RESTART PSW AFTER FORCED WAIT
×	136	(88)	12	AUXRSRGS	3F	RESTART REGS AFTER FORCED WAIT 15,0,1
•	148	(94)	8	AUXPCKAD	2F	SAVE AREA FOR PROGRAM CHECK STXIT
	156	(9C)	8	AUXABND	2F	STXIT AB CONTROL INFO SAVE AREA
	164	(A4)	8	AUXOCMAD	2F	STXIT OC INFO SAVE AREA
	172	(AC)	1	AUXFLAG	х	ROLL-OUT/ROLL-IN FLAGS
£ .	173	(AD)	1		х	RESERVED
(	-1		* * * *	END OF SW	APPING	AREA
	174	(AE)	1	AUXDISP	х	DISPATCHING STATUS
	175	(AF)	1	AUXCOND	х	ROLL-OUT CONDITION
	176	(B0)	4		CL4	RESERVED

AREA USED TO CONTROL NESTED INCLUDES ON INPUT

50	(B4)	2	AUXCURCT	н	COUNT OF INCLUDES IN THE JOB
182	(B6)	2	AUXRSV02	н	RESERVED
184	(B8)	4	AUXRSV01	F	RESERVED
188	(BC)	4	AUXCURIN	F	CURRENT INPUT REC (8 /INCLUDE LEVELS)
192	(CO)	28		7CL4	OTHER 7 LEVELS

How to locate: Displ. X'24' (PCBAUX) of the PICB's contains the addr. of the AUXAR's. (Reg.9 will normally point to the AUXAR)

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OFFS	SET	LENGTH	NAME		DESCRIPTION	
			AUXCURND	OF	MARKER FOR END OF NESTING CURRENT REC ADDRESS FOR INTEGRITY	~
		AREA U	SED TO CON	TROL SY	S NO.S ASSIGNED TO LIBRARY	1
	• •	4 4			CURRENT RECORD NO. READ SECOND INPUT FILE CONTROL	
		CONTR	OL AREA FOR	R /FILE	INFO STORED IN PARTITION	
					ADDR OF /FILE INFO START ADDR OF AUXILIARY PROCESSOR	
		PARAM	ETER LIST F	OR PSEU	DO PARTITION SVC 61/61/65	~
240	(F0)	4	AUXPCOMR	A	ADDRESS OF PSEUDO PARTITION COMREG	/
244	(F4)	4	AUXPSTOP	А	HIGH ADDRESS OF PSEUDO PARTITION	
	DUN	INY COMMU	NICATION R	EGION A	SSOCIATED WITH PSEUDO PARTITION	
248	(F8)	228	AUXCOMRG	CL228	RESERVE SPACE FOR COMREG	
476	(1DC)	0	AUXAR\$	OF	END OF TABLE ENTRY	•

#### INTERACTIVE PARTITION SAVE AREA

## ECT NAME: DTSAUXPP

THE FIRST PART OF THE CONTROL BLOCK CONTAINS A SAVE AREA, WHICH REFLECTS THE PSW AND REGISTER VALUE AT INTERACTIVE PARTITION TERMINATION TIME. THIS AREA IS USED BY THE 'DTSCDUMP' PROGRAM. THE REMAINING AREAS ARE USED AS WORK AND SAVE AREA BY THE SECOND LEVEL INTERRUPT HANDLER AND THE FILE JTINE.

OFFSET LENGTH NAME TYPE DESCRIPTION 0 (0) 0 DTSAUXPP DSECT START ADDRESS OF LOW END OF PARTITION

MISCELLANEOUS CONTROL AREAS

0 (0) 120 AUXENDSV CL120 TERMINATION REGISTERS AND PSW

AREA USED BY EXITS TO FILE CONTROL ROUTINE (DTSFILRT)

	120	(78)	16	AUXFCPRM	4F	PARAMETER LIST
	136	(88)	128	AUXFCSAV	32F	FILE ROUTINE SAVE AREA
•	264	(108)	0	AUXFCA	OCL16	FILE CONTROL AREA
	264	(108)	5	AUXFCOP	CL5	TYPE OF OPERATION, READ, UPDATE
	269	(10D)	1	AUXFCCMP	С	M 0 1 2 ETC. SOURCE OF FILE RTN ENTRY
	270	(10E)	4		CL4	I/O COUNTS
¥	274	(112)	4	AUXFCREC	CL4	NO. OF RECORD TO RETRIEVE
	278	(116)	2		CL2	UNUSED

#### MISCELLANEOUS SAVE AREAS

1	`0 (118)	8	AUXTANM	CL8	LOGICAL TRANSIENT NAME
1	à (120)	1	AUXCMD	С	SAVE LAST CCW COMMAND CODE
	289 <sup>÷</sup> (121)	1	AUXDSK	С	FLAG IF CHNL PROGR IS FOR DISK DEVICE
	290 (122)	1	AUXSWTA	С	WORK AREA SWITCH
	291 (123)	1	AUXSWTB	С	WORK AREA SWITCH
	292 (124)	1	AUXFCSWT	С	SWITCH
	^93 (125)	1	AUXCMDA	С	CONTROL COMMAND IF WRITE AFTER SPACE
12	(126)	1	AUXFLAG1	С	FLAG BYTE
			AUXEOF	X'80'	EOF CARD READ
	295 (127)	1		с	NOT USED
	296 (128)	4	AUXLOLOD	F	LOWEST LOAD ADDRESS IN PARTITION
	300 (12C)	1	AUXCANCL	XL1	PARTITION CANCEL CODE FOR DUMP

w to locate: Displ. X'08' (PCBSTART) of the PICB contains the addr. of the save area in partition, which is also the start of the interactive partition.

		LENGTH	NAME		DESCRIPTION	
	(12D)			ORG *-		6
	(12C)	4	AUXDUWA		DUMP WORK AREA ADDRESS	ζ.,
		AREA	AS USED AS	SUBROUT	INE REGISTER SAVE AREAS	
304	(130)	24	AUXWORK	6F	REGISTER SAVE AND WORK AREA	
328	(148)	4	AUXSVRA	F	REGISTER SAVE	$\sim$
332	(14C)	4	AUXSVRB	F	*	
336	(150)		AUXSVRC		*	
340	(154)	4	AUXSVRD	F	*	
344	(158)	80	AUXWORKA	20F	GENERAL WORK AREA	
		INPUT/	OUTPUT AREA	AS FOR 1	ICCF FILE LIBRARY ROUTINES	$\sim$
424	(1A8)	92	AUXRCA1	CL92	IO WORK AREA 1	モデ
	(204)		AUXRCA2		IO WORK AREA 2	
		WORK A	REA 2 USED	BY LOAD	/FETCH RELOCATION ROUTINES	
516	(204)	0	AUXFTPRM	OCL60	DEFINE WORK AREA	
516	(204)	4	AUXFTNAM	A	CALLSEQ LIST-ADDRESS OF PHASE NAME	
520	(208)	1	AUXFTOPT	С	OPTION BITS FOR FETCH/LOAD	•
			AUXDE	X'02'	REG 1 POINTS TO DIRECTORY ENTRY	
			AUXTXT	X'01'	TXT=NO SPECIFIED	
521	(209)	3	AUXFTLST	AL3	ADDRESS OF GENL LIST IF ANY	
524	(20C)	4	AUXADSAV	F	SAVE AREA FOR LIST RETURN POINTER	*
			DIRECTO	RY ENTR	Y LIST WORK AREA	
528	(210)	2		н	UNUSED	
530	(212)	8	AUXFTPNM	CL8	PHASE NAME	$\langle \epsilon \rangle$
538	(21A)	3		CL3	TTR LOCATION OF TEXT	New /
541	(21D)	1	AUXFTN	С	LENGTH OF REST OF AREA, HALFWORDS	
542	(21E)	4		CL4	TEXT BLOCK CONTROL	
546	(222)	1	AUXFTC	С	SWITCHES	
				X'02'	DIRECTORY ENTRY IS ACTIVE	
				X'10'	PHASE IS IN THE SVA	$\langle \  \  \rangle$
				X'80'	PHASE IS SELF RELOCATABLE	トノ
547	(223)	1		С	UNUSED	~
	(224)		AUXFTPPP	CL3	LOAD POINT AT LINKEDIT	
551	(227)	3	AUXFTEEE	CL3	ENTRY POINT AT LINKEDIT TIME	
554	(22A)	3		CL3	RELOAD INFO	
557	(22D)	3	AUXFTAAA	CL3	PARTITION START AT LINKEDIT	EN
	(230)			CL4	REMAINING DATA	()
	(234)			CL4	REMAINING DATA	· · · ·
568	(238)	8	AUXFTARA	CL8	ADDRESS LIST LIKE AUXFTNAM	

	OFFS	SET	LENGTH	NAME	ТҮРЕ	DESCRIPTION
	·	INF	UT/OUTPUT	AREA FOR	PASSING	DATA TO/FROM PSEUDO-PARTITION
	608	(260)	2	AUXINPLN	Н	LENGTH OF INPUT FROM TERMINAL
	610	(262)	2		Н	
	612	(264)	256	AUXRCA	CL256	INPUT AREA
	-		INP	UT AREA US	SED TO R	EQUEST TERMINAL WRITE
	612	(264)	4	AUXWECB	F	ECB POSTED BY MTCS AFTER WRITE
	616	(268)	4	AUXWDECB	A	BTAM DECB FOR THE LINE
	620	(26C)	4	AUXWTTN	А	TERMINAL TABLE ENTRY
	624	(270)	4	AUXWMSG	А	ADDRESS OF MESSAGE
	-	(274)	2	AUXWOPCO	CL2	TERMINAL OPERATION CODE
	6	(276)	56	AUXWDATA	CL56	MESSAGE OUTPUT AREA
				AREAS USEI	D FOR US	ER PROGRAM LINKAGE
	868	(364)	72	AUXUSV	18F	USER'S SAVE AREA
	940	(3AC)	4	AUXUPARM	F	ADDR OF USER'S PARAMETER LIST
	944	(3BO)	6	AUXUEOJ	XL6	EOJ BOOTSTRAP
٠	950	(3B6)	2	AUXUXRC	Н	USER'S RETURN CODE
			PRESE	RVATION O	F BG EXE	CUTION STATUS FOR IDUMP
۲	952	(3B8)	8	AUXPHASE	CL8	ABORTING PHASE
	960	(300)	0	AUXDDA	0D	END OF DSECT

## REQUEST QUEUE ENTRY

#### DSECT NAME: DTSRQED

IF THERE IS A REQUEST FOR AN EXECUTION IN AN INTERACTIVE PARTITION, DTSTX03 OR DTSPROCS (FOR 'MULTEX') ARE SCANNING FOR A FREE ENTRY IN THE QUEUE AND IF FOUND, INSERTING THE TAS ADDRESS AND THE EXECUTION CLASS INTO THE ENTRY. THAN THE HIGH PRIORITY TASK IS POSTED WHICH THAN TRIES TO FIND A FREE PICE ENTRY FOR THIS CLASS AND INSERTS THE PICE ADDRESS INTO ROE ENTRY. DTSCJENT (WHICH RUNS AS FIRST PHASE IN THE INTERACTIVE PARTITION) SETS AND RESETS IN THE RQE ENTRY USER DEFINED OPTIONS. STATUS OF EXECUTION IS INSERTED INTO THE RQE ENTRY BY THE HIGH PRIORITY TASK, THE SECOND LEVEL INTERRUPT HANDLER AND THE COMMAND PROCESSOR DTSTX03. AT END OF JOB THE FICE ADDRESS IN THE RQE ENTRY IS REMOVED BY THE HIGH TASK, THAN THE FOREGROUND IS POSTED TO CONTINUE PROCESSING. DTSTX03 THAN REMOVES THE TAS ADDRESS FROM THE RQE ENTRY AND FREES THE ENTRY TO BE AVAILABLE FOR THE NEXT EXECUTION REQUESTS.

THE RQE IS IN EXCLUSIVE CONTROL BY THE HIGH PRIORITY TASK, THE SECOND LEVEL INTERRUPT HANDLER, DTSPROCS, DTSCOPCM OR THE COMMAND PROCESSOR DTSTX03 IF ONE OF THEM WORKING ON IT. THIS IS DONE VIA A 'TS' INSTRUCTION AND A WAIT POST LOGIC.

THE RQE IS PFIXED DURING THE WHOLE ICCF SESSION.

OFFSE?	r	LENGTH	NAME	TYPE	DESCRIPTION	
0	(0)	8	RQERCB	CL8	RESOURCE CONTROL BLOCK FOR RQE TBL	
		* * * *	PRECEDES	ONLY TH	E FIRST RQE ENTRY	

8	(8)	4	RQETAS	F	POINTER TO INITIATING USER AREA
12	(C)	4	RQEPICB	F	POINTER TO PICB; O IF NOT YET EXECU
16	(10)	1	RQEPRTNO	с	PARTITION NO. IF SCHEDULED
17	(11)	1	RQESTAT	С	CURRENT STATUS OF QUEUED ENTRY
				X'00'	QUEUED BUT NOT YET IN PSEUDO PARTITN
				X'20'	EXECUTION IN PROGRESS IN BG
				X'40'	PARTITION IS ELIGIBLE FOR ROLL-OUT
				X'80'	ANY CANCEL CONDITION
				X'41'	REQUEST R/O DUE TO FULL PRINT SPL
				X'21'	MAY BE ROLLED IN AFTER PRINT IN FG
				X'42'	REQUEST R/O DUE TO CONVERSTNL READ
				X'22'	MAY BE RESTARTED, CONVERSATIONAL

START OF REQUEST QUEUE

<u>How to locate:</u> Displ. X'10' (MCSRQE) of the MCSA contains the addr. o. the RQE. (Reg.4 will normally point to the RQE) Preceded by the identifier 'DTSRQED'

	OFFSET	r		NAME	TYPE	DESCRIPTION
C		(10)			X'43' X'23' X'25' X'46' X'26'	READ COMPLETED REQUEST ROLL-OUT DUE TO TIME SLICE MAY BE RESTARTED, NEXT TIME SLICE WAITING FOR INITIAL SCHEDULED START ROLL OUT DUE TO END OF JOB (OPTION) RESTART NEXT STEP AFTER NORMAL EOJ
	18 (	(12)	1	RQEOPT	C X'01' X'02' X'04' X'08' X'10' X'20'	OPTION BITS FOR COMPILE AND EXEC TRUNCATE PRINT LINE AT RIGHT FOR THIS JOB. USEFUL FOR 80 CHAR DEVICES NO LOADER STEP DESIRED DO NOT USE EXECUTION MONITOR BASIC INPUT COMMAND IS CONSOLE IN SAVE CURRENT PUNCH AREA, ADD ON END RESET TO START OF PUNCH AREA IF SAVE
-	19 (	(13)	1	RQEOPTA	X'40' X'80' C X'01' X'02'	ON IF JJSYS FILES KEEP NAME NO OBJECT DECK DESIRED MORE USER OPTION BITS DUNP OPTION IS SET ON SPECIAL TECHNIQUES ALLOWED LIKE READING BACKWARD IN INPUT AREA OR READ/NO FEED
•	20	(14)	1	RQECOND	x'04' X'08' X'10' X'20' C x'01' x'02' X'04' x'08'	ON IF NO CLEAR OF PSEUDO PARTITION PROGRAM CAN READ ENTIRE INPUT AREA ON INDICATES NO PROMPT DESIRED ON INDICATES NO PRINT EOF CONDITION BITS AND SWITCHES FETCH LOADER AS NEXT JOB STEP SPECIAL ATTENTION ROUTINE HOOK END OF DATA ON /LOAD CARD END OF INPUT ON /DATA CARD
	21	(15)	1	RQECONDA	X'10' X'20' X'40' X'80' C	END OF INPUT FILE INPUT ENDED ON OBJECT DECK LOADER REQUESTED AT SOME FUTURE POINT PROCESSING AN OBJECT DECK MORE INTERNAL SWITCHES
	22	(16)	1	RQECLASS	X'01' X'02' X'08' C	STXIT OC ATTENTION REQUESTED REQUEST SCHEDULE OF DUMP ROUTINE CJENT IS CALLED FOR CLEAN - UP ACTIVITIES ONLY CLASS OF JOB BEING RUN
Ĺ		(17)		RQETYP	C X'01 X'02' X'04' X'08'	LOAD MODULE TYPE BITS THIS PROGRAM SHOULD NOT BE ROLLED OUT DO NOT EXECUTE RESULTING OBJ MONITOR PRIORITY TASK (CONVERSATNL PROGRAMS) THIS IS A COMPILER RUNNING
	24	(18)	1	RQETYPA	x'20' C	THIS IS AN AUTHORIZED PROGRAM MORE TYPE BITS

OFFS	ET	LENGTH	NAME	TYPE	DESCRIPTION
				x'20' x'40'	PROGRAM TIES UP RELO LIB PROGRAM TIES UP SOURCE LIB
				X'80'	
25	(19)		RQETRAMT	С	LINE TRUNCATE START VALUE
26	(1A)	1	RQELANG	С	LANGUAGE CONTROL BYTE
				X'01'	ASSEMBLY LANGUAGE
				X'02'	COBOL
				X'03'	FORTRAN
				X'04'	BASIC
				X'05'	PL/1
				X'06'	RPG II
				X'07'	APL
27	(1B)	1	RQESTAT2	C X'81'	RQE CANCEL CODE SAVE AREA
				X'81' X'82'	CANCEL DUE TO TOO MUCH PUNCH OUTPUT
				x 82 X'83'	INVALID CCB OR CCW ADDRESS
				х 65 Х'84'	CANCEL DUE TO TOO MANY INPUT CARDS
				X'85'	CANCEL DUE TO INSUFFICIENT LIB SPACE
				X'86'	NORMAL END OF JOB IN PARTITION
				X'87'	DUMP/JDUMP ISSUED
				X'88'	CANCEL COMMAND ISSUED
				X'89'	USE OF UNAUTHORIZED PROGRAM
					UNAUTHORIZED PROGRAM OR LIB ACCESS
				X'8A'	INVALID, MISPLACED OR MISSING LOAD
				X'8B'	MEMBER NOT IN LIB
				X'8C'	INVALID SECURITY OR PASSWORD
				X'8D'	NESTING LIMIT EXCEEDED
				X'8E'	REQUEST CANCEL FROM TERMINAL
				X'8F'	CANCEL DUE TO EXEC TIME EXCEEDED
				X'90'	CANCEL - FULL SCREEN WRITE ERROR
				X'91'	CANCEL DUE TO INVALID FILE RTN REQST
				X'92'	CAN'T FIND FILE BUFFERNW/ NO UPDAT
				X'93'	RELEASE TO REC NOT PREVIOUSLY REAL
				X'94'	CANCELD BECAUSE SYSTEM LIB NOT AVALBL
				X'95'	REC NO BEYOND LAST EXTENT
				X'96'	ZERO LENGTH REC ENCOUNTRD (EOF WLR)
				X'97'	QUESTIONABLE DISK ERROR CONDITION
				X'98'	WRONG LENGTH REC I/O ERROR
				X'99'	DISK ERROR, MISSING OR WIERD IDS
				X'9A'	DATA CHECK ON DISK
				X'9B'	ATTEMPT TO PERFORM INVALID FILE
				X'9C'	OPERATION (OVERLAY SYST REC, ETC.) CANCELLED BY MAIN CONSOLE OPERATOR
				X'9C' X'9D'	CANCELLED BY MAIN CONSOLE OPERATOR CANCELLED DUE TO JOB ENTRY STMT ERROR
				X'9D' X'9E'	
				X 9E X'9F'	JOB CANCELLED DUE TO INVALID USE G.
				V 31	JOBCOM MACRO
					SOBOOI PINORO

(

	OFFS	ET	LENGTH	NAME	TYPE	DESCRIPTION
					X'A0'	JOB CANCELLED DUE TO A LABEL LONGER
(	<u>.</u>				X'A1'	THAN 2K JOB CANCELLED DUE TO AN INVALID
and the second					A 61	LABEL FUNCTION REQ (LOCGRPL)
					X'A2'	SUBMIT CANCELLED DUE TO NON-ZERO
·						RETURN CODE FROM POWER
					X'A3'	JOB CANCELLED DUE TO DOS UNLOCK
/						FAILURE
6	28	(1C)	0	RQERINF	OF	USER'S RETURN INFORMATION
1	28	(10)	2	RQEXRCE	н	USER'S RETURN CODE EXTENTION
	30	(1E)	2	RQEXRC	Н	USER'S EXECUTION RETURN CODE
	32	(20)	8	RQEPATCH	2F	RQE BLOCK PATCH SPACE
	40	(28)	0	RQED\$	OD	ALLIGNMENT
,	40	(28)			ORG	DTSRQED+8 ORG TO START

VSE/ICCF Control Block and Area Layout 81

## TERMINAL ASSOCIATED STORAGE

## DSECT\_NAME: DTSTASD

THIS DESCT DESCRIBES THE FIELDS CONTAINED WITHIN TERMINAL ASSOCIATED STORAGE. THERE IS ONE TAS AREA FOR EACH TERMINAL WITHIN THE SYSTEM. THE TAS IS CONSTRUCTED AT SIGN ON TIME AND IS MAINTAINED DURING THE TERMINAL SESSION. THE AREA IS USED TO RETAIN INFORMATION WHICH MUST BE RETAINED BETWEEN TRANSACTIONS FROM THE TERMINAL.

OFFSE	т	LENGTH	NAME T	YPE DE	SCRIPTION	
0	(0)	8	TASIDENT C	L8 TA	S IDENTIFIER *\$NTTS\$*	
			ADDRESS CON	STANT PC	INTERS (ADCONS)	,
8	(8)	4	TASDECB A	AD	DR OF LINE DECB FOR THIS TERMINAL	
12	(C)	4	TASTTNT A	TE	RMINAL TABLE ENTRY ADDRESS	
16	(10)	4	TASPNTRY A	AD	DR OF PROG TABLE ENTRY FOR TX00	
				PC	INTS TO ICCF PPT ENTRY FOR CICS	
20	(14)	4	TASCICSA A	AL	DR OF CICS CSA	
24	(18)	4	TASTCA A	TC	A ADDR (CICS ONLY)	
28	(1C)	4	TASADCON A	BA	SE ADDR FOR COMMON SUBROUTINES	
32	(20)	.4	TASFLERR A	AL	DR OF FILE ERROR ROUTINE	
36	(24)	4	TASINTBL A	AL	DR OF INPUT TABLES	
40	(28)	4	TASOTTBL A	. AI	DR OF OUTPUT TABLES	
		* * * *	THESE ADCONS	POINT TO	LISTS OF ADCONS WHICH POINT TO THE	
		* * * *	ACTUAL CHARAC	TER TRAN	SLATE TABLES FOR INPUT AND OUTPUT.	'

#### USER INFORMATION IN TAS

44	(2C)	4	TASUSER	CL4	USER IDENTIFICATION
48	(30)	4	TASTRMID	CL4	TERMINAL ID FOR USER
52	(34)	4	TASPRTAD	F	ADDR OF TERMNL TABLE ENTRY FOR PRTR
56	(38)	4	TASPRTR	CL4	TERMNL ID OF PRTR ASSOCIATD WITH 3270
60	(3C)	4	TASIDREC	F	POINTER TO USER ID RECORD
64	(40)	2	TASLIBID	н	LIBRARY ID ASSOCIATED WITH THIS USER
66	(42)	2	TASRLSCT	PL2	MONITOR FREEING OF RECORDS

How to locate: Displ. X'F8' (MCSTASF) of the MCSA contains the addr. of the first TAS, displ. X'FC' (MCSTASL) of the MCSA contains the addr. of the last TAS. Label \*\$MTTS\$\* identifies start of TAS. Displ. X'1E4' of the TAS points to the next TAS, displ. X'1E8' of the TAS points to the previous TAS. NOTE: Not pointed to by any control block if in DTSPROCS, DTSCLPRP, DTSBATCH, or DTSMTFY.

			LENGTH			DESCRIPTION
		(44)		TASOPTA	C X'01' X'02'	USER OPTIONS FROM ID RECORD ON IF USER CAN SUBMIT DOS JCL USER PROFILE HAS PROMPTING
,					X'04' X'08' X'10' X'20'	USER IS FLAGGED AS BATCH ONLY BIT OFF MEANS SECURITY ON ANY ACCESS BIT OFF MEANS SECURITY ON MAINT.
	69	(45)	1	TASOPTB	X'40' X'80' C X'01'	BIT OFF MEANS SECURITY ON PASSWORD USER DEFAULT FOR INCLUSION PROMPT USER OPTIONS FROM ID RECORD UNUSED
,					X'02' X'04'	USER MAY UPDATE COMMON CODE BY USING SHARE COMMAND
					X'08'	CHANGE HIS LOGON PASSWORD ON IF USER IS AUTHORIZED FOR CERTAIN PROGRAM USAGE
					X'10' X'20' X'40' X'80'	GENERAL ADMINISTRATIVE FUNCTIONS USER BYPASS FOR STANDARD FILE CHECKS
•	70	(46)	1	TASOPTAA	C X'01'	USER OPTIONS FROM ID RECORD IF ON USER CAN'T USE /GROUP COMMAND USER MAY ONLY ACCESS PROGRAMS
٠					X'04'	SPACE FROM DYNAMIC AREA
		(17)			X'40' X'80'	IF ON INSERTION OF POWER-JCL IN SUBMIT CAN BE SUPPRESSED IF SET ON AUTOMATIC MESSAGE DISPLAY USER'S SECURITY LEVEL
(	71 72	(47) (48)		TASOPTBB TASOPTC	C C X'01'	USER OPTIONS SET INTERNALLY USER IS SUCCESSFULLY SIGNED ON
					X'02' X'04' X'08' X'10'	INDICATES UPDATE OK INDICATES INPUT AREA OK
					X'20' X'40' X'80'	INDICATES INPUT MODE OF EDITOR INCLUSION PROMPTING ON IN /INP
	73	(49)	1	TASOPTD	C X'01' X'02'	USER OPTIONS SET INTERNALLY ON IF LENGTHY FUNCTION INTERRUPTED; FOR RESTART AFTER ANY PENDING RQST DISPLAY IS IN HARDCOPY MODE
(					X'04' X'08'	BYPASS ROLL-OUT IN EFFECT

VSE/ICCF Control Block and Area Layout 83

EXECUTION OF EXECUTED PROGRAM. X'10' DELAY CANCEL TILL EXECUTING PSEUDO PARTN IS CANCELED. APPLIES TO CLIS X'20' ON IF INPLIED EXECUTE OK X'40' DON'T OPEN TIOA WHEN ENTERING MODE X'80' INSERT FF CHAR IN HC OUTPUT 74 (4A) 1 TASOPTE C USER OPTIONS SET INTERNALLY X'01' PROGRAM FUNCTION KEYS DISABLED X'02' INPUT VERIFICATION SET X'04' LOGGING IS STO INCLUDE FIRST OUTPUT X'10' LOGGING IS TO INCLUDE FIRST OUTPUT X'10' LOGGING IS TO INCLUDE FIRST OUTPUT X'10' MORE INPUT LINES WAITING IN BUFFER X'40' WAIT BETWEEN OUTPUTS OF MULTIPLE TSTA COMMAND OR LINE INPUT (CICS ONLY) X'80' TIME DELAY BETWEEN OUTPUTS IF MULTIPLE LINE INPUT (CICS ONLY) X'80' TIME DELAY BETWEEN OUTPUTS IF MULTIPLE LINE INPUT (CICS ONLY) X'80' TIME DELAY BETWEEN OUTPUTS IF MULTIPLE LINE INPUT (CICS ONLY) X'80' ON IF PROCESSING IN MACRO X'04' ON IF NOT CO FRINT MACRO RESULT X'10' INDICATE NEW EXEC TIME LIMIT X'20' INDICATE NEW EXEC TIME LIMIT X'80' ON IF NO SEARCH OF COMMON LIB X'80' ON IF PROSESS INPUT OUTPUT INTER- PRETATION OF CONTROL CHARACTERS WHILE IN EXECUTION MODE X'04' DEFERRED EXECUTION MODE X'04' ON IF ROQUESTING SHUTDOWN X'10' OUTPUT IS 80 BYTE RECS; NO TRUNC X'06' ON IF REQUESTING, SHUTDOWN X'10' OUTPUT IS 80 BYTE RECS; NO TRUNC X'06' AUX INFO CTRL BIT 1 X'80' AUX INFO CTRL BIT 2 77 (4D) 1 TASOPTH C USER OPTION SET INTERNALLY	OFFSET	LENGTH	NAME	TYPE	DESCRIPTION
<ul> <li>X'20' ON IF IMPLIED EXECUTE OK</li> <li>X'40' DON'T OPEN TIGA WHEN ENTERING MODE</li> <li>X'40' DON'T OPEN TIGA WHEN ENTERING MODE</li> <li>X'80' INSERT FF CHAR IN HC OUTPUT</li> <li>Y (01' PROGRAM FUNCTION KEYS DISABLED</li> <li>X'02' INPUT VERIFICATION SET</li> <li>X'04' LOGGING IS SET ON</li> <li>X'06' LOGGING IS TO INCLUDE INPUT</li> <li>X'10' LOGGING IS TO INCLUDE FIRST OUTPUT</li> <li>X'10' LOGGING IS TO INCLUDE FIRST OUTPUT</li> <li>X'10' LOGGING IS TO INCLUDE FIRST OUTPUT</li> <li>X'10' MORE INPUT LINES WAITING IN BUFFER</li> <li>X'40' WAIT BETWEEN OUTPUTS OF MULTIPLE TSTA COMMAND OR LINE INPUT (CICS ONLY)</li> <li>X'80' TIME DELAY BETWEEN OUTPUTS IF</li> <li>MULTIPLE LINE INPUT (CICS ONLY)</li> <li>X'80' TIME DELAY BETWEEN OUTPUTS IF</li> <li>MULTIPLE LINE INPUT (CICS ONLY)</li> <li>X'80' ON IF PROCESSING IN MACRO</li> <li>X'04' ON IF PROCESSING IN MACRO</li> <li>X'06' ON IF NOT TO PRINT MACRO RESULT</li> <li>X'10' INDICATE NEW EXEC TIME LINIT</li> <li>X'20' INDICATE NEW EXEC TIME LINIT</li> <li>X'20' INDICATE NEW EXEC TIME LINIT</li> <li>X'20' INDICATE NEW EXEC TIME LINIT</li> <li>X'80' ON TO BYPASS INPUT OUTPUT INTER- PRETATION OF CONTROL CHARACTERS</li> <li>WHILE IN EXECUTION MODE</li> <li>X'60' ON IF NO SEARCH OF COMMON LIB</li> <li>X'60' ON IF NO SEARCH OF COMMON LIB</li> <li>X'60' ON IF DISCONNECTED EX MODE</li> <li>X'01' NO CONVERSATIONAL PROMPT</li> <li>X'02' ON IF DISCONNECTED EX MODE</li> <li>X'04' DEFERRED EXECUTION COMPLETED</li> <li>X'06' ON IF REQUESTING SHUTDOWN</li> <li>X'10' OUTPUT IS 80 BYTE RECS; NO TRUNC</li> <li>X'20' ON FOR 3270 DATA ANALYSIS INTRPRIN</li> <li>X'40' AUX INFO CTRL BIT 1</li> <li>X'80' AUX INFO CTRL BIT 1</li> </ul>				X'10'	DELAY CANCEL TILL EXECUTING PSEUDO
<ul> <li>X'40' DON'T OPEN TIOA WHEN ENTERING MODE</li> <li>X'80' INSERT FF CHAR IN HC OUTPUT</li> <li>74 (4A) 1 TASOPTE C USER OPTIONS SET INTERNALLY</li> <li>X'01' PROGRAM FUNCTION KEYS DISABLED</li> <li>X'02' INPUT VERIFICATION SET</li> <li>X'04' LOGGING IS SET ON</li> <li>X'06' LOGGING IS TO INCLUDE INPUT</li> <li>X'06' LOGGING IS TO INCLUDE FIRST OUTPUT</li> <li>X'06' LOGGING IS TO INCLUDE FIRST OUTPUT</li> <li>X'10' LOGGING IS TO INCLUDE FIRST OUTPUT</li> <li>X'20' MORE INPUT LINES WAITING IN BUFFER</li> <li>X'40' WAIT BETWEEN OUTPUTS OF MULTIPLE TSTA</li> <li>COMMAND OR LINE INPUT (CICS ONLY)</li> <li>X'80' TIME DELAY BETWEEN OUTPUTS IF</li> <li>MULTIPLE LINE INPUT (CICS ONLY)</li> <li>X'80' ON TO BYPASS TAB, BKSPC PROCS, ETC</li> <li>X'02' FORCE TABBING FOR EX MODE INPUT</li> <li>X'04' ON IF NOT TO PRINT MACRO RESULT</li> <li>X'10' INDICATE NEW EXEC TIME LINIT</li> <li>X'20' INDICATE NEW PSEUDO PARTITION TIME</li> <li>X'40' ON IF NO SEARCH OF COMMON LIB</li> <li>X'80' ON TO BYPASS INPUT OUTPUT INTER-PRETATION OF CONTROL CHARACTERS</li> <li>WHILE IN EXECUTION MODE</li> <li>X'01' NO CONVERSATIONAL PROMPT</li> <li>X'02' ON IF DISCONNECTED EX MODE</li> <li>X'04' ON IF REQUESTING SHUTDOWN</li> <li>X'10' OUTPUT IS 80 BYTE RECS; NO TRUC</li> <li>X'20' ON FG 3270 DATA ANALYSIS INTERPTN</li> <li>X'40' AUX INFO CTRL BIT 1</li> <li>X'80' AUX INFO CTRL BIT 1</li> </ul>					
<ul> <li>X'80' INSERT FF CHAR IN HC OUTPUT</li> <li>74 (4A) 1 TASOPTE C USER OPTIONS SET INTERNALLY</li> <li>X'01' PROGRAM FUNCTION KEYS DISABLED</li> <li>X'02' INPUT VERIFICATION SET</li> <li>X'04' LOGGING IS SET ON</li> <li>X'06' LOGGING IS TO INCLUDE INPUT</li> <li>X'10' LOGGING IS TO INCLUDE FIRST OUTPUT</li> <li>X'10' LOGGING IS TO INCLUDE FIRST OUTPUT</li> <li>X'20' MORE INPUT LINES WAITING IN BUFFER</li> <li>X'40' WAIT BETWEEN OUTPUTS OF MULTIPLE TSTA</li> <li>COMMAND OR LINE INPUT (CICS ONLY)</li> <li>X'80' TIME DELAY BETWEEN OUTPUTS IF</li> <li>MULTIPLE LINE INPUT (CICS ONLY)</li> <li>X'80' ON TO BYPASS TAB, BKSPC PROCS, ETC</li> <li>X'02' FORCE TABBING FOR EX MODE INPUT</li> <li>X'40' ON IF FNOT TO PRINT MACRO RESULT</li> <li>X'10' INDICATE NEW FSEUDO PARTITION TIME</li> <li>X'40' ON IF NO TO FORT ALARCK RESULT</li> <li>X'10' INDICATE NEW PSEUDO PARTITION TIME</li> <li>X'40' ON IF NO SEARCH OF COMMON LIB</li> <li>X'80' ON TO BYPASS INPUT OUTPUT INTER-PRETATION OF CONTROL CHARACTERS</li> <li>WHILE IN EXECUTION MODE</li> <li>Y'02' ON IF DISCONNECTED EX MODE</li> <li>X'04' DEFFERED EXECUTION COMPLETED</li> <li>X'06' ON IF REQUESTING SHUTDOWN</li> <li>X'10' INO CONVERSATIONAL PROMPT</li> <li>X'02' ON IF REQUESTING SHUTPOWN</li> <li>X'10' OUTPUT IS 80 BYTE RECS; NO TRUNC</li> <li>X'20' ON FOR 3270 DATA ANALYSIS INTERPTIN</li> <li>X'40' AUX INFO CTRL BIT 1</li> </ul>					
74 (4A)       1       TASOPTE       C       USER OPTIONS SET INTERNALLY         X'01'       PROGRAM FUNCTION KEYS DISABLED       X'02'       INPUT VERIFICATION SET         X'04'       LOGGING IS SET ON       X'08'       LOGGING IS SET ON         X'08'       LOGGING IS TO INCLUDE FIRST OUTPUT         X'10'       LOGGING IS TO INCLUDE FIRST OUTPUT         X'10'       MORE INPUT LINES WAITING IN BUFFER         X'40'       WAIT BETWEEN OUTPUTS OF MULTIPLE TSTA         COMMAND OR LINE INPUT (CICS ONLY)       X'80'         X'80'       TIME DELAY BETWEEN OUTPUTS IF         MULTIPLE LINE INPUT (CICS ONLY)       X'80'         X'80'       TIME DELAY BETWEEN OUTPUTS IF         MULTIPLE LINE INPUT (CICS ONLY)       X'80'         X'80'       TASOPTF       C         USER OPTIONS SET INTERNALLY       X'01'         X'04'       ON TO BYPASS TAB, BKSPC PROCS, ETC         X'05'       ON IF PROCESSING IN MACRO         X'06'       ON IF PROCESSING IN MACRO         X'06'       ON IF NOT DERINT MACRO RESULT         X'10'       INDICATE NEW EXECT TIME LIMIT         X'20'       INDICATE NEW FEEDD PARTITION TIME         X'80'       ON IF ROT TO RINTH ACRO RESULT         X'10'       INDICATE NEW EXECUTION M					
<ul> <li>X'01' PROGRAM FUNCTION KEYS DISABLED</li> <li>X'02' INPUT VERIFICATION SET</li> <li>X'04' LOGGING IS SET ON</li> <li>X'06' LOGGING IS TO INCLUDE INPUT</li> <li>X'10' LOGGING IS TO INCLUDE FIRST OUTPUT</li> <li>X'10' MORE INPUT LINES WAITING IN BUFFER</li> <li>X'40' WAIT BETWEEN OUTPUTS OF MULTIPLE TSTA COMMAND OR LINE INPUT (CICS ONLY)</li> <li>X'80' TIME DELAY BETWEEN OUTPUTS IF MULTIPLE LINE INPUT (CICS ONLY)</li> <li>X'80' TIME DELAY BETWEEN OUTPUTS IF</li> <li>MULTIPLE LINE INPUT (CICS ONLY)</li> <li>X'80' ON IF PROCESSING IN MACRO</li> <li>X'02' FORCE TABBING FOR EX MODE INPUT</li> <li>X'04' ON IF PROCESSING IN MACRO</li> <li>X'06' ON IF NOT DO FINIT MACRO RESULT</li> <li>X'10' INDICATE NEW EXEC TIME LIMIT</li> <li>X'20' INDICATE NEW EXEC TIME LIMIT</li> <li>X'80' ON TO BYPASS INPUT OUTPUT INTER- PRETATION OF CONTROL CHARACTERS</li> <li>WHILE IN EXECUTION MODE</li> <li>X'01' NO CONVERSATIONAL PROMPT</li> <li>X'02' ON IF DISCONNECTED EX MODE</li> <li>X'04' DEFERRED EXECUTION COMPLETED</li> <li>X'04' ON IF REQUESTING SHUTIONN</li> <li>X'10' OUTPUT IS 80 BYTE RECS; NO TRUNC</li> <li>X'20' ON FOR 3270 DATA ANALYSIS INTERTIN</li> <li>X'40' AUX INFO CTRL BIT 1</li> <li>X'80' AUX INFO CTRL BIT 1</li> </ul>					
<ul> <li>X'02' INPUT VERIFICATION SET</li> <li>X'04' LOGGING IS SET ON</li> <li>X'06' LOGGING IS TO INCLUDE INPUT</li> <li>X'10' LOGGING IS TO INCLUDE FIRST OUTPUT</li> <li>X'10' LOGGING IS TO INCLUDE FIRST OUTPUT</li> <li>X'20' MORE INPUT LINES WAITING IN BUFFER</li> <li>X'40' WAIT BETWEEN OUTPUTS OF MULTIPLE TSTA COMMAND OR LINE INPUT (CICS ONLY)</li> <li>X'80' TIME DELAY BETWEEN OUTPUTS IF MULTIPLE LINE INPUT (CICS ONLY)</li> <li>X'80' TIME DELAY BETWEEN OUTPUTS IF</li> <li>MULTIPLE LINE INPUT (CICS ONLY)</li> <li>X'80' ON IF PROCESSING IN MACRO</li> <li>X'04' ON IF PROCESSING IN MACRO</li> <li>X'06' ON IF NOT DE PRIAT MACRO RESULT</li> <li>X'10' INDICATE NEW EXEC TIME LIMIT</li> <li>X'20' INDICATE NEW EXEC TIME LIMIT</li> <li>X'20' INDICATE NEW EXEC TIME LIMIT</li> <li>X'80' ON TO BYPASS INPUT OUTPUT INTER- PRETATION OF CONTROL CHARACTERS</li> <li>WHILE IN EXECUTION MODE</li> <li>X'01' NO CONVERSATIONAL PROMPT</li> <li>X'02' ON IF DISCONNECTED EX MODE</li> <li>X'04' DEFERRED EXECUTION COMPLETED</li> <li>X'06' ON IF REQUESTING SHUTDOWN</li> <li>X'10' INDUTYUT IS 80 BYTE RECS; NO TRUNC</li> <li>X'20' ON FOR 3270 DATA ANALYSIS INTERPTIN</li> <li>X'40' AUX INFO CTRL BIT 1</li> <li>X'80' AUX INFO CTRL BIT 1</li> </ul>	/4 (4A	) 1	TASOPTE		
<ul> <li>X'04' LOGGING IS SET ON</li> <li>X'08' LOGGING IS TO INCLUDE INPUT</li> <li>X'10' LOGGING IS TO INCLUDE FIRST OUTPUT</li> <li>X'10' LOGGING IS TO INCLUDE FIRST OUTPUT</li> <li>X'20' MORE INPUT LINES WAITING IN BUFFER</li> <li>X'40' WAIT BETWEEN OUTPUTS OF MULTIPLE TSTA</li> <li>COMMAND OR LINE INPUT (CICS ONLY)</li> <li>X'80' TIME DELAY BETWEEN OUTPUTS IF</li> <li>MULTIPLE LINE INPUT (CICS ONLY)</li> <li>75 (4B) 1 TASOPTF C USER OPTIONS SET INTERNALLY</li> <li>X'01' ON TO BYPASS TAB, BKSPC PROCS, ETC</li> <li>X'02' FORCE TABBING FOR EX MODE INPUT</li> <li>X'04' ON IF NOT TO PRINT MACRO RESULT</li> <li>X'10' INDICATE NEW EXEC TIME LINIT</li> <li>X'20' INDICATE NEW EXEC TIME LINIT</li> <li>X'40' ON IF NO SEARCH OF COMPON LIB</li> <li>X'80' ON TO BYPASS INPUT OUTPUT INTER-PRETATION OF CONTROL CHARACTERS</li> <li>WHILE IN EXECUTION MODE</li> <li>76 (4C) 1 TASOPTG C USÉR OPTIONS ET INTERNALLY</li> <li>X'01' NO CONVERSATIONAL PROMPT</li> <li>X'02' ON IF DISCONNECTED EX MODE</li> <li>X'04' DEFERRED EXECUTION COMPLETED</li> <li>X'06' ON IF REQUESTING SHUTDOWN</li> <li>X'10' OUTPUT IS 80 BYTE RECS; NO TRUNC</li> <li>X'20' ON FOR 3270 DATA ANALYSIS INTRPRTN</li> <li>X'40' AUX INFO CTRL BIT 1</li> <li>X'80' AUX INFO CTRL BIT 2</li> </ul>					
X'08' LOGGING IS TO INCLUDE INPUT X'10' LOGGING IS TO INCLUDE FIRST OUTPUT X'20' NORE INPUT LINES WAITING IN BUFFER X'40' WAIT BETWEEN OUTPUTS OF MULTIPLE TSTA COMMAND OR LINE INPUT (CICS ONLY) X'80' TIME DELAY BETWEEN OUTPUTS IF MULTIPLE LINE INPUT (CICS ONLY) X'80' TIME DELAY BETWEEN OUTPUTS IF MULTIPLE LINE INPUT (CICS ONLY) X'00' ON TO BYPASS TAB, BKSPC PROCS, ETC X'02' FORCE TABBING FOR EX MODE INPUT X'04' ON IF PROCESSING IN MACRO X'08' ON IF NOT TO PRINT MACRO RESULT X'10' INDICATE NEW EXEC TIME LINIT X'20' INDICATE NEW FSEUDO PARTITION TIME X'40' ON IF NO SEARCH OF COMMON LIB X'80' ON TO BYPASS INPUT OUTPUT INTER- PRETATION OF CONTROL CHARACTERS WHILE IN EXECUTION MODE X'01' NO CONVERSATIONAL PROMPT X'02' ON IF DISCONNECTED EX MODE X'04' DEFFERED EXECUTION COMPLETED X'06' ON IF REQUESTING SHUTDOWN X'10' OUTPUT IS 80 BYTE RECS; NO TRUNC X'20' ON FG 3270 DATA ANALYSIS INTERPTN X'40' AUX INFO CTRL BIT 1 X'80' AUX INFO CTRL BIT 2					
<ul> <li>X'10' LOGGING IS TO INCLUDE FIRST OUTPUT</li> <li>X'20' MORE INPUT LINES WAITING IN BUFFER</li> <li>X'40' WAIT BETWEEN OUTPUTS OF MULTIPLE TSTA COMMAND OR LINE INPUT (CICS ONLY)</li> <li>X'80' TIME DELAY BETWEEN OUTPUTS IF</li> <li>MULTIPLE LINE INPUT (CICS ONLY)</li> <li>X'80' ON TO BYPASS TAB, BKSPC PROCS, ETC</li> <li>X'01' ON TO BYPASS TAB, BKSPC PROCS, ETC</li> <li>X'02' FORCE TABBING FOR EX MODE INPUT</li> <li>X'04' ON IF PROCESSING IN MACRO</li> <li>X'08' ON IF NOT TO PRINT MACRO RESULT</li> <li>X'10' INDICATE NEW EXEC TIME LINIT</li> <li>X'20' INDICATE NEW PSEUDO PARTITION TIME</li> <li>X'40' ON IF NO SEARCH OF COMMON LIB</li> <li>X'80' ON TO BYPASS INPUT OUTPUT INTER- PRETATION OF CONTROL CHARACTERS</li> <li>WHILE IN EXECUTION MODE</li> <li>76 (4C) 1 TASOPTG C USE OPTIONS SET INTERNALLY</li> <li>X'01' NO CONVERSATIONAL PROMPT</li> <li>X'02' ON IF DISCONNECTED EX MODE</li> <li>X'04' DEFFERED EXECUTION COMPLETED</li> <li>X'06' ON IF REQUESTING, SHUTDOWN</li> <li>X'10' OUTPUT IS 80 BYTE RECS; NO TRUNC</li> <li>X'20' ON FG 3270 DATA ANALYSIS INTERPTN</li> <li>X'40' AUX INFO CTRL BIT 1</li> <li>X'80' AUX INFO CTRL BIT 2</li> </ul>					
X'20' MORE INPUT LINES WAITING IN BUFFER X'40' WAIT BETWEEN OUTPUTS OF MULTIPLE TSTA COMMAND OR LINE INPUT (CICS ONLY) X'80' THE DELAY BETWEEN OUTPUTS IF MULTIPLE LINE INPUT (CICS ONLY) 75 (4B) 1 TASOPTF C USER OFTIONS SET INTERNALLY X'01' ON TO BYPASS TAB, BKSPC FROCS, ETC X'02' FORCE TABBING FOR EX MODE INPUT X'04' ON IF PROCESSING IN MACRO X'08' ON IF NOT TO PRINT MACRO RESULT X'10' INDICATE NEW RECO THE LIMIT X'20' INDICATE NEW RECO THE LIMIT X'20' INDICATE NEW RECO THE LIMIT X'40' ON IF NO SEARCH OF COMMON LIB X'80' ON TO BYPASS INPUT OUTPUT INTER- PRETATION OF CONTROL CHARACTERS WHILE IN EXECUTION MODE USER OFTIONS SET INTERNALLY X'01' NO CONVERSATIONAL PROMPT X'02' ON IF DISCONNECTED EX MODE X'04' DEFFERED EXECUTION COMPLETED X'04' ON IF REQUESTING, SHUTDOWN X'10' OUTPUT IS 80 BYTE RECS; NO TRUNC X'20' ON FG 3270 DATA ANALYSIS INTERPTN X'40' AUX INFO CTRL BIT 1 X'80' AUX INFO CTRL BIT 1					
<ul> <li>X'40' WAIT BETWEEN OUTPUTS OF MULTIPLE TSTA COMMAND OR LINE INPUT (CICS ONLY)</li> <li>X'80' TIME DELAY BETWEEN OUTPUTS IF MULTIPLE LINE INPUT (CICS ONLY)</li> <li>75 (4B) 1 TASOPTF C USER OPTIONS SET INTERNALLY</li> <li>X'01' ON TO BYPASS TAB, BKSPC PROCS, ETC</li> <li>X'02' FORCE TABBING FOR EX MODE INPUT</li> <li>X'04' ON IF PROCESSING IN MACRO</li> <li>X'06' ON IF NOT TO PRINT MACRO RESULT</li> <li>X'10' INDICATE NEW EXEC TIME LIMIT</li> <li>X'20' INDICATE NEW EXEC TIME LIMIT</li> <li>X'20' INDICATE NEW EXEC TIME LIMIT</li> <li>X'40' ON IF NO SEARCH OF COMMON LIB</li> <li>X'80' ON TO BYPASS INPUT OUTPUT INTER- PRETATION OF CONTROL CHARACTERS</li> <li>WHILE IN EXECUTION MODE</li> <li>76 (4C) 1 TASOPTG C USËR OPTIONS SET INTERNALLY</li> <li>X'01' NO CONVERSATIONAL PROMPT</li> <li>X'02' ON IF DISCONNECTED EX MODE</li> <li>X'04' DEFERRED EXECUTION COMPLETED</li> <li>X'06' ON IF REQUESTING, SHUTDOWN</li> <li>X'10' OUTPUT IS 80 BYTE RECS; NO TRUNC</li> <li>X'20' ON FOR 3270 DATA ANALYSIS INTRPRTN</li> <li>X'40' AUX INFO CTRL BIT 1</li> <li>X'80' AUX INFO CTRL BIT 1</li> </ul>					
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X'01' ON TO BYPASS TAB, BKSPC PROCS, ETC X'02' FORCE TABBING FOR EX MODE INPUT X'04' ON IF PROCESSING IN MACRO X'08' ON IF NOT TO PRINT MACRO RESULT X'10' INDICATE NEW RESULT LIMIT X'20' INDICATE NEW RESULT ALIMIT X'20' INDICATE NEW RESULT ALIMIT X'40' ON IF NO SEARCH OF COMMON LIB X'80' ON TO BYPASS INPUT OUTPUT INTER- PRETATION OF CONTROL CHARACTERS WHILE IN EXECUTION MODE USER OFTIONS SET INTERNALLY X'01' NO CONVERSATIONAL PROMPT X'02' ON IF DISCONNECTED EX MODE X'04' DEFERRED EXECUTION COMPLETED X'08' ON IF REQUESTING SHUTDOWN X'10' OUTPUT IS 80 BYTE RECS; NO TRUNC X'20' ON FG 3270 DATA ANALYSIS INTRPRTN X'40' AUX INFO CTRL BIT 1 X'80' AUX INFO CTRL BIT 2					
X'02' FORCE TABBING FOR EX MODE INPUT X'04' ON IF PROCESSING IN MACRO X'06' ON IF NOT TO PRINT MACRO RESULT X'10' INDICATE NEW EXEC TIME LIMIT X'20' INDICATE NEW FSEUDO PARTITION TIME X'40' ON IF NO SEARCH OF COMMON LIB X'80' ON TO BYPASS INPUT OUTPUT INTER- PRETATION OF CONTROL CHARACTERS WHILE IN EXECUTION MODE X'01' NO CONVERSATIONAL PROMPT X'02' ON IF DISCONNECTED EX MODE X'04' DEFERRED EXECUTION COMPLETED X'06' ON IF REQUESTING SHUTDOWN X'10' OUTPUT IS 80 BYTE RECS; NO TRUNC X'20' ON FOR 3270 DATA ANALYSIS INTRPRIN X'40' AUX INFO CTRL BIT 1 X'80' AUX INFO CTRL BIT 2	75 (4B	) 1	TASOPTF		
X'04' ON IF PROCESSING IN MACRO X'08' ON IF NOT TO PRINT MACRO RESULT X'10' INDICATE NEW EXEC TIME LIMIT X'20' INDICATE NEW PSEUDO PARTITION TIME X'40' ON IF NO SEARCH OF COMMON LIB X'80' ON TO BYPASS INPUT OUTPUT INTER- PRETATION OF CONTROL CHARACTERS WHILE IN EXECUTION MODE 76 (4C) 1 TASOPTG C USÉR OPTIONS SET INTERNALLY X'01' NO CONVERSATIONAL PROMPT X'02' ON IF DISCONNECTED EX MODE X'04' DEFERRED EXECUTION COMPLETED X'08' ON IF REQUESTING SHUTDOWN X'10' OUTPUT IS 80 BYTE RECS; NO TRUNC X'20' ON FOR 3270 DATA ANALYSIS INTRPRIN X'40' AUX INFO CTRL BIT 1 X'80' AUX INFO CTRL BIT 2					,,,,,
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X'20' ON FOR 3270 DATA ANALYSIS INTRPRTN X'40' AUX INFO CTRL BIT 1 X'80' AUX INFO CTRL BIT 2					
X'40' AUX INFO CTRL BIT 1 X'80' AUX INFO CTRL BIT 2					-
X'80' AUX INFO CTRL BIT 2					
77 (4D) 1 TASOPTH C USER OPTION SET INTERNALLY					
· · · · · · · · · · · · · · · · · · ·	77 (4E	) 1	TASOPTH	С	USER OPTION SET INTERNALLY
LIMIT VALUES AND STATISTICS					

LIMIT VALUES AND STATISTICS

FACTORS TO CONTROL USER'S ALLOCATION OF LIBRARY SPACE

78	(4E)	2	TASMAXST	н	MAX NO. OF RECORDS ALLOWED IN MEMBE
					THAT IS, MAXIMUM INPUT AREA SIZE 🔍
80	(50)	2	TASMAXPN	н	MAXIMUM PUNCH AREA ALLOCATION

	OFFS		LENGTH	NAME	TYPE	DESCRIPTION					
		(52)	2	TASMAXPR	н	MAXIMUM PRINT AREA ALLOCATION					
15		(54)	2	TASACTPR	Н	ACTUAL SPOOL ALLOCATION MAX					
	Ì		-	FACTORS TO	CONTRO	L RUNAWAY SYSTEM USE					
	86	(56)	2	TASTMLIM	н	TIME LIMIT FOR EXECUTION					
	88	(58)	2	TASTMOUT	Н	TIME CANCEL IF NO ACTIVITY					
1	90	(5A)	2	TASTMTEX	Н	MAX TOTAL TIME IN PSEUDO PARTITION					
		USER STATISTICS									
	92	(5C)	2	TASEXTIM	н	EXECUTION TIME					
	94	(5E)	2	TASEXTMA	Н	TOTAL TIME IN PSEUDO PARTITION					
	96	(60)	4	TASRQSTS	F	NO.OF ENTRIES THRU TX00 FOR THIS USER					
1	100	(64)	4	TASFLACS	F	NO. OF ACCESSES TO THE FILE					
	104	(68)	4	TASALLOC	F	APPROXIMATE RUNNING COUNT OF					
-						USER SPACE ALLOCATION					
				CONTROL	I/O CHA	RACTER TRANSLATION					
	108	(6C)	1	TASTRINP	С	POINTER TO INPUT XLATE TABLE					
	109	(6D)	1	TASTRDSP	С	POINTER TO OUTPUT XLATE TABLE					
•				* POINTER F	OR THE	1 2 ETC. WHICH POINT TO THE ADCON TRANSLATE TABLE CURRENTLY IN EFFECT.					
				LIBRARI	DIRECIO	DRY SEARCH CONTROL					
	110	(6E)	0	TASLIBAR	OCL36	LIBRARY DIRECTORY SEARCH					
	110	(6E)	1	TASLIBTS	С	LIBRARY HEADER FLAG BITS					
						SET BY THE GETMEMB ROUTINE					
	111	(6F)	1	TASDRBTS	С	DIRECTORY RECORD FLAG BITS					
1						SET BY THE GETMEMB ROUTINE					
	112	(70)	4	TASLBREC	F	RECORD NO. OF LIBRARY HEADER RECORD					
			,	m. at bomb	F	FOR USER'S CURRENT PRIMARY LIBRARY					
	116	(74)	4	TASLBPTR	F	RECORD NO. OF THE DIRECTORY RECORD IN WHICH THE LAST LOOKED UP MEMBER WAS FOUND.					
(	120	(78)	4	TASDRREC	A	ADDRESS IN RCA1 OF THE DIRECTORY SUB-RECORD WHERE THE LAST LOOKED UP					
•	124	(7C)	4	TASLBFIL	F	MEMBER WAS FOUND. RECORD NO. OF THE FIRST RECORD IN THE MEMBER JUST LOOKED UP.					
	128	(80)	4	TASLBCON	F	RECORD NO. OF HEADER RECORD FOR THE CONNECTED LIBRARY IF ANY.					
E	132	(84)	8	TASDRSPC	2F	LOCATION OF FREE SPACE IN DIRECTORY					
6	140	(8C)	2	TASDIRCT	н	COUNT OF DIRECTORY SUB-RECORDS					

OFFS	ET	LENGTH	NAME	TYPE	DESCRIPTION
142	(8E)	2	TASDIRMX	Н	MAXIMUM NO. OF MEMBERS IN LIB ALLOWED
144	(90)	2	TASSPCCT	н	COUNT OF FREE SUBRECORDS IN DIRECTOF
					· · · · · · · · · · · · · · · · · · ·

#### MODE AND RETURN CONTROL INFO

116	(00)	1	TACEVDEC	~	CUDDENT M	ODE	OF	HCED
146	1921	1	TASEXPEC	- U	CURRENT M	UDE	Ur-	USER

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EXPECTANCY CODES ON RETURN TASEXPEC

X'00'	IN COMMAND MODE - EXPECT COMMAND
X'01'	IN INPUT MODE - EXPECT INPUT
X'03'	IN UPDATE MODE - EXPECT UPDATES
X'04'	IN EDIT MODE - EXPECT EDIT COMMAND
X'08'	SHOW PF COMMAND RUNNING

## THE FOLLOWING MODES ARE COLLECTIVELY CALLED EXECUTION MODE

				X'02'	EXECUTION MODE, LIST/DISPLAY CONT.	
				X'10'	BACKGROUND IN PROGRESS FOR THIS TAS	
				X'11'	BG IN PROGRESS, REQUIRES TX03 SERVICE	
				X'12'	TX03 CONTINUING SPOOL PRINT	
				X'13'	TX03 IS AWAITING TERMNL INPUT FOR BG	
147	(93)	.1	TASCOMCD	с	REMEMBER LAST COMMAND CODE	-
148	(94)	1	TASCMMOD	С	COMMAND MODIFIER USED TO PASS INFO	
					ABOUT THE COMMAND TO ANOTHER MODULE	
				X'01'	EDITOR PRINT FORWARD REQUESTED	
				X'02'	EDITOR VERIFY LONG FOR TX04	*
				X'05'	TESTED BY ECMCHANG	
					3270 CHANGE IN INPUT AREA	
149	(95)	1	TASTBLBT	с	FLAG BITS FROM COMMAND TABLE	
				X'04'	ON IF CMD ONLY VALID FOR PRIMARY LIB	
				X'20'	ON IF CMD VALID FOR COMPRESSED MEMBE	)
				X'40'	ON IF LONG RUNNING COMMAND	1
150	(96)	1	TASRTYP	С	TYPE OF RE-INITIATION IN EFFECT	
151	(97)	1	TASLGOF	С	LOGOFF REASON CODE	
				X'01'	TERMINAL TIMEOUT	
				X'02'	LOGIC ERROR IN ICCF OR CICS	
				X'03'	LOGIC ERROR IN ICCF OR CICS	$\rightarrow$
				X'04'	COM. PROC NOT RES. NOR IN PCT	
				X'05'	PROGR CHECK, ABEND IN COM PRO	
				X'06'	RESERVED	
				X'07'	NOT ENOUGH CICS DYN STORAGE	
				X'08'	PREVIOUS LOGON NOT LOGGED	
					OFF PROPERLY	1
				X'09'	SAME AS 7	
				X'OA'	SSX BRIDGE - PARAMETER LIST INVALID,	1
					OR INVALID ADDRESS IN LIST	

	OFFSET		LENGTH	NAME	TYPE	DESCRIPTION
Ć	×				X'OB' X'OC' X'OD' X'OE'	LOGOFF BY /DISC DTSFILE CMD SSX - RECONNECTION REJECTED LOGOFF BY /DISC USER/TERM CM SSX -1 FUNCTION REQUESTED WITHOUT TERM, TERM REQUIRED
					X'FF'	LOGOFF FORCED BY EOJ RTNE
C				INPUT F	ILE CON	TROL INFORMATION
	152	(98)	0	TASCTRLN	0CL16	INPUT FILE INFORMATION
	152	(98)	4	TASSTREC	F	STARTING RECORD IN INPUT AREA
	156	(90)		TASCRREC	F	CURRENT OR LAST RECORD IN INPUT AREA
	160	(A0)		TASLNNO	н	COUNT KEPT ON LINE NO.
1	.62	(A2)		TASPRAMT	н	PROMPT INCREMENT
	<b>4</b>	(A4)		TASPROMP	F	CURRENT PROMPT VALUE
				EDIT OR	UPDATE	FILE CONTROL INFO
	168	(A8)	0	TASCTRUP	OCL40	UPDATE CONTROL INFORMATION
	168	(A8)		TASNMTRN	CL8	NAME OF MEMBER (BLANK IF INPUT AREA)
	176	(BO)		TASFRTRN	F	STARTING RECORD NO.
	180	(B4)		TASCRTRN	F	CURRENT RECORD NO.
•	184	(B8)		TASADAFT	F	REC NO. AFTER WHICH ADDITNS ARE MADE
	188	(BC)		TASADTO	F	REC NO. BEFORE WHICH ADDITNS ARE MADE
	192	(CO)		TASFRLN	-	STRING LINE NO. DURING ADD OR REPLACE
	196	(04)		TASTOLN	F	ENDING LINE NO.
•	200	(C8)		TASLNTRN	F	CURRENT LINE NO.
				EDITC	OR ONLY	CONTROL FIELDS
,	°04	(CC)			ORG	TASADAFT
- É	.4	(B8)	4	TASEDEND	F	LAST REC NO. IN EDITED FILE
	188	(BC)	4	TASEDIND	A	ADDR OF INDEX IF ANY
	192	(CO)	2	TASEDRPT	Н	REPEAT VALUE FOR BLANK OR OVERLAY
	194	(C2)	) 2	TASEDRTN	н	LAST EDITOR ROUTINE ENTERED
						USED BY ROLL-OUT RESTART
	196	(C4)	) 0	TASEDPRM	0CL12	EDITOR CONTROL FACTORS
1	6	(C4)	) 1	TASEDSWT	с	SWITCHES FOR EDITOR:
					X'01'	ON AFTER FIRST TIME THROUGH EDITOR
					X'02'	ON IF IN BRIEF MODE OF EDITOR
					X'04'	ON IF EDITING A COMMON MEMBER
					X'08'	LONG MODE OF EDITOR SET
					X'10'	LINEMODE EDITING IN EFFECT
(					X'20'	FLAG UPDATES TO FILE IN COLUMN 72
1					X'40'	LONG MODE CONTROL
-					X'80'	INPUT INVALID COMMAND
	197	(C5	) 1	TASVERCL	C	VERIFY PRINT COLUMN NO.
	/	(	, -		-	

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OFFSET		ET	LENGTH	NAME	TYPE	DESCRIPTION	
	198	(06)	1	TASZONST	с.	LOCATE/CHANGE - ZONE START	-
	199		1	TASZONND		LOCATE/CHANGE - ZONE END	
	200		1			,	· ./
	201		1	TASEDVER			
	202	(CA)				NO. OF LINES TO PRINT IF LONG VERIFY	
	203			TASEDLNS		START COLMN OF SEQ NO. IF IN LINEMOD	E
	204	(00)	1	TASEDLNC	с	•	2
	205	(CD)	1	TASCASE	с	CURRENT CASE SETTING	
	206	(CE)	1	TASEDSW2	С	EDITOR CONTROL FLAGS	5 Z
					X'80'	CURRENT IMAGE SETTING	
					X'40'	5550 DOUBLE BYTE DISPLAY MODE	
						ON - IF DB SUPPORT INITIALIZED	
						& DBCS MEMBER	
					X'20'	SET DBCS ON/OFF GIVEN	
					X'10'	FILE DBCS=ON GIVEN	トン
					X'08'	FILE DBCS=OFF GIVEN	
					X'04'	TABBING TO BE PERFORMED	
	207	(CF)	1	TASTMPCL	С	COLUMN WHEN CN COMMAND SUFFIX USED	

MAINTENANCE CONTROL AREA

208	(D0)			ORG	TASCTRUP
168	(A8)	8	TASMNTNM	CL8	NAME OF MEMBER BEING UPDATED
176	(B0)	4	TASMNTPS	CL4	PASSWORD IF ANY
180	(B4)	1	TASMNTCD	С	MAINT CODE M-MAINT, A-READ ACCESS
181	(B5)	1	TASMNTAT	С	MEMBER ATTRIBUTE (DBCS)
				C'2'	DOUBLE BYTE DATA
				C'1'	NO DOUBLE BYTE DATA
				C'0'	ATTR NOT TO BE CHANGED
182	(B6)	2		CL2	NOT USED

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CRJE CONTROL AREAS								
						•		
208	(D0)			ORG	TASCTRUP			
168	(A8)	0	TASRJEA	OCL40	RJE CONTROL AREAS IN TAS			
168	(A8)	0	TASRPARM	0CL20	XP PARAMETER LIST			
168	(A8)	4	TASRXPCB	A	ADDR OF XPCCB			
172	(AC)	4	TASRTECB	F	TIMER ECB USED BY DTSIXP			
176	(BO)	8	TASRWTL	2F	WAIT LIST			
184	(B8)	1	TASRFF	х	WAITLIST DELIMITER FIELD			
				X'FF'	END OF WAITLIST INDICATOR			
185	(B9)	1	TASRFLG	х	DISPOSITION CONTROL FIELD			
				X'01'	INTERACTIVE PARTITION			
				X'02'	FOREGROUND			
186	(BA)	1	TASRFUNC	х	REQUEST BYTE			

	OFFSI	ET	LENGTH	NAME	TYPE	DESCRIPTION
1					x'01'	SENDR REQUEST
6					X'02'	CONNECT REQUEST
	9				X'04'	DISCONNECT-PURGE REQUEST
	187	(BB)	1		х 04 Х	RESERVED
	188	(BC)		TASRXSPL	F	ADDRESS OF SPL AREA
	192	(00)		TASRSPLC	F	TOTAL LINE COUNT IN LST FILE
	196	(C4)		TASRCURR	F	CURRENT SPOOL LINE NUMBER
1		(04)		TASREOKK	F	ADDRESS XPCC-REPLY BUFFER
	204	(00)		TASRBUFL	н	LENGTH OF XPCC-REPLY BUFFER
	204	(CE)		TASREEL	x	CONTROL BYTE
	200	(011)	-	111011011110	 X'01'	SET ON IF GETSPOOL BROWSE NEEDED
					X'02'	SWITCH USED TO INDICATE EOF
					X'04'	IND STATUSP HAS VALID JOB]
1					X'08'	ON, IF LIST MODE IN /DQ CMD
					X'10'	ON, SUCCESSFUL OPEN OF /LP
-	207	(CF)	1	TASRCC	x	CONTROL COMMAND CODE
				TIST	CONTRO	L INFORMATION
	208	(D0)	0	TASLSTCT	0CL31	PRINT CONTROL TO USER TERMINAL
	208	(DO)	4	TASLSTCR	F	CURRENT REC NO. DURING /LIST
•	212	(D4)	4	TASLSTLN	F	CURRENT LINE NO. FOR /DISPL
	216	(D8)	4	TASLSTND	F	LINE ON WHICH TO END LIST
	220	(DC)	4	TASLSTTP	F	TOP-OF-PAGE RECORD NUMBER
	224	(E0)	4	TASLSTTL	F	TOP-OF-PAGE LINE NUMBER
•	228	(E4)	4	TASLOCPT	F	RESTART /SKIP 'LOCATE STRING
	232	(E8)	2	TASLSTSA	Н	CURRENT SHIFT AMOUNT
					X'64'	MAX SHIFT AMOUNT ALLOWED
					TASLST	TP SAVE START COLLUMN LOC STRNG
/						TP+2 SAVE END COLLUMN LOC STRING
£.					X'01'	MIN START COLLUMN LOC STRING
1					X'9C'	
	234	(EA)		TASENTMD		SAVE MODE ON ENTRY TO LIST FUNC
	235	(EB)	1	TASLSTCL	С	LIST CONTROL
					X'01'	LIST OPERATION TERMINATED
					X'02'	END OF DISPLAY REACHED
1					X'04'	INDICATE ENTRY FROM EDITOR
					X'08'	LOGICAL END OF DSPLY REACHED
					X'40'	/LISTP ACTIVE (NOT /DQ E.G.)
					X'80'	LIST SHIFT MODE ACTIVE
	236	(EC)	1	TASEXBTS	С	BITS USED TO RECALL LIST FUNCTION
					X'01'	ON IF COMPRESSION REQUESTED
1					X'02'	NONSTOP OUTPUT MODE REQUESTED
					X'04'	MEMBER BEING LISTED IS COMPRESSED
					X'08'	HEXADECIMAL LIST REQUESTED
					X'10'	
					X'20'	FULL LIBRARY LIST, ALL USERS

OFFSE	ET.	LENGTH	NAME	TYPE	DESCRIPTION	
237 238	(ED) (EE)		TASSUBRC TASSUBOF	X'80'	LIST IS FOR POWER SPOOL FILE ERROR OCCURRED DURING /LIST INDEX TO ENTRY IN DIR RECORD OFFSET TO ENTRY IN DIR RECRD	Ċ

INSERT COMMAND CONTROL

239	(EF)			ORG	TASLSTCT - USE SAME AREA AS LISTER	$\frown$
208	(D0)	0	TASINSCT	OCL31		3 - Z
208	(DO)	4	TASINSCR	F	CURRENT REC NO.	
212	(D4)	4	TASINSLN	F	CURRENT LINE NO.	
216	(D8)	4	TASINSND	F	ENDING LINE NO.	
220	(DC)	1	TASINSDF	х	DIRECTORY FLAGS OF INS. MEM	
221	(DD)	3		CL3	UNUSED	1
224	(E0)	4		F	UNUSED	× )
228	(E4)	4		F	UNUSED	
232	(E8)	2		н	UNUSED	
234	(EA)	5		CL5	UNUSED	
239	(EF)			ORG		

EXECUTION TIME CONTROL AREA

240	(F0)	2	TASXINCA	н	COUNT OF PRINTED RECORDS	
242	(F2)	2	TASXINCB	Н	COUNT OF PUNCH OUT RECORDS	
244	(F4)	2	TASXINCC	Н	COUNT OF INPUT CARDS READ	
246	(F6)	2		н	UNUSED	•
248	(F8)	4	TASXINST	F	JOB STREAM START	
252	(FC)	4		F	???	
256	(100)	2	TASXMAIN	н	MAIN LIB AT EXECUTION	
258	(102)	2	TASXCON	н	CONN LIB AT EXECUTION	
260	(104)	2	TASXCOM	н	COMM LIB AT EXECUTION	$\langle C \rangle$
262	(106)	1	TASCLASS	С	USER EXECUTION CLASS	1 J
263	(107)	1	TASXCNTL	С	EXECUTION CONTROL	
			TASEXNWT	X'01'	RETURN CNTLR TO TERMNL USER IF NO	IP
					IS AVAILABLE FOR EXECUTION	
264	(108)	1	TASXCNCD	С	FORCED CANCEL CODE	
265	(109)	2	TASXRSVD	2C	RESERVED	15
267	(110)	1		с	UNUSED	$\langle \rangle$
						4. /

## PRINTER FILE CONTROL INFORMATION

268 (	10C)	0	TASPRTCT	OCL8	CONTROL PRINT FROM BACKGROUND	
268 (	10C)	4	TASPRTST	F	START OF PRINTER FILE	.1
272 (	110)	4	TASPRTND	F	END OF PRINTER FILE	- f'

OUTPUT FILE CONTROL INFORMATION

76 (114)       0       TASOUTCT OCL8       OUTPUT FILE INFORMATION         6 (114)       4       TASOUTST F       OUTPUT START RECORD NO.         280 (118)       4       TASOUTND F       OUTPUT END RECORD NO.         280 (118)       4       TASOUTND F       OUTPUT END RECORD NO.         284 (11C)       4       TASLOGST F       START RECORD NO.         284 (11C)       4       TASLOGST F       START RECORD NO.         284 (120)       4       TASLOGCR F       CURRENT RECORD NO.         292 (124)       4       TASLOGCR F       CURRENT RECORD NO.         296 (128)       4       TASRVENG F       START ADDR OF RETRIEVE BUF         00 (12C)       4       TASRVEND F       END ADDR OF RETRIEVE BUF         04 (130)       4       TASRVSWI C       CTL FLAG FOR RETRIEVE BUF         04 (134)       1       TASRVSWI C       CTL FLAG FOR RETRIEVE FCTN         X'01'       RETRIEVE SET ON       X'01' STORE THIS LINE         X'01'       ENTER-KEY PRESSED       X'91' ENGTH OF RETRIEVE BUFFER         SCREEN AND OUTPUT CONTROL PARAMETERS         312 (138)       4       TASCRTAB F       ADDR OF ACTIVE SCREEN TABLE ENTRAGE			LENGTH			DESCRIPTION
280 (118) 4 TASOUTNO F OUTPUT END RECORD NO. USER LOG CONTROL AREA 284 (11C) 4 TASLOGST F START RECORD NO. 36 (120) 4 TASLOGND F LAST RECORD NO. IN AREA 292 (124) 4 TASLOGND F LAST RECORD NO. RETRIEVE CONTROL AREA 296 (128) 4 TASRVBEG F START ADDR OF RETRIEVE BUF 70 (12C) 4 TASRVEND F END ADDR OF RETRIEVE BUF 90 (130) 4 TASRVEND F END ADDR OF RETRIEVE BUF 90 (130) 4 TASRVEND F PTR TO NEXT CMD FOR RETRIEVE 308 (134) 1 TASRVSWI C CTL FLAG FOR RETRIEVE FCTN X'01' RETRIEVE SET ON X'02' DON'T STORE THIS LINE X'04' ENTER-KEY PRESSED X'FF' LENGTH OF RETRIEVE BUFFER 312 (138) 4 TASCRTAB F ADDR OF ACTIVE SCREEN TABLE ENTRY 320 (140) 4 TASCRTAB F ADDR OF LARGE SCREEN TABLE ENTRY 320 (140) 4 TASCRTAB F ADDR OF LARGE SCREEN TABLE ENTRY 320 (140) 4 TASCRTAB F F/S PARN LIST POINTER SAVE AREA TASCREEN AND SUBFIELD DEFINITIONS SCREEN CONTROL VALUES 24 (144) 1 TASCROPT C CONTROL OPTIONS X'01' INDICATES NO SCREEN ERASE X'02' DON'T VALIDATE LENTRY X'04' DON'T VALIDATE LENTRY X'04' DON'T XLATE OUTPUT X'10' ON IF ALARM ON 3270 X'20' ON IF SCREEN INPUT AREA CLEARED X'40' SET ON FOR MDT BIT ON 325 (145) 1 TASCRIP C NO. LINES IN NUPT AREA 326 (146) 1 TASCRSOT C STARTING UNPUT AREA CLEARED X'40' SET ON FOR MDT BIT ON 325 (145) 1 TASCRIP C NO. LINES IN OUTPUT AREA 326 (146) 1 TASCRSOT C STARTING UNPUT AREA 326 (146) 1 TASCRSOT C STARTING UNPUT COLUMN 329 (144) 1 TASCREN C ENDING OUTPUT COLUMN 320 (144) 1 TASCREN C ENTRY ON TINUOUS BUFFERS 331 (145) 1 TASCREN C ENDING OUTPUT COLUMN 321 (144) 1 TASCREN C ENDING OUTPUT COLUMN 322 (144) 1 TASCREN C ENDING OUTPUT COLUMN 323 (144) 1 TASCREN C STARTING OUTPUT COLUMN 324 (144) 1 TASCREN C ENDING OUTPUT COLUMN 325 (145) 1 TASCREN C ENDING OUTPUT COLUMN 321 (144) 1 TASCREN C ENTINUOUS MODE BLAY 332 (14C) 1 TASCREN C STARTING OUTPUT COLUMN						
USER LOG CONTROL AREA 284 (11C) 4 TASLOGST F START RECORD NO. 38 (120) 4 TASLOGND F LAST RECORD NO. IN AREA 292 (124) 4 TASLOGCR F CURRENT RECORD NO. 292 (124) 4 TASRVERG F START ADDR OF RETRIEVE BUF 00 (12C) 4 TASRVEND F END ADDR OF RETRIEVE BUF 04 (130) 4 TASRVEND F PTR TO NEXT CMD FOR RETRIEVE 308 (134) 1 TASRVSWI C CTL FLAG FOR RETRIEVE FCTN X'01' RETRIEVE SET ON X'02' DON'T STORE THIS LINE X'04' ENTER-KEY PRESSED X'FF' LENGTH OF RETRIEVE BUFFER 316 (13C) 4 TASCRIAR F ADDR OF ACTIVE SCREEN TABLE ENTRY 320 (140) 4 TASFSPEN F F/S PARN LIST POINTER SAVE AREA 224 (144) 1 TASCROPT C CONTROL VALUES 224 (144) 1 TASCROPT C CONTROL VALUES 224 (144) 1 TASCROPT C CONTROL OPTIONS X'01' INDICATES NO SCREEN ERASE X'02' DON'T VALIDATE LENGTH X'04' DON'T XLATE OUTPUT X'10' ON IF ALARM ON 3270 X'20' ON IF SCREEN INPUT AREA CLEARED X'40' SET ON FOR NDT BIT ON 325 (145) 1 TASCRINP C NO. LINES IN INP AREA 326 (146) 1 TASCROFT C STARTING UNPUT COLUMN 329 (140) 1 TASCROTT C NO. LINES IN INP AREA 326 (146) 1 TASCROTT C STARTING UNPUT COLUMN 329 (140) 1 TASCROTT C NO. LINES IN OUTPUT AREA 326 (146) 1 TASCROTT C STARTING OUTPUT COLUMN 329 (144) 1 TASCROTT C CONTINUOUS BUFFERS 321 (145) 1 TASCROTT C STARTING OUTPUT COLUMN 322 (144) 1 TASCROTT C CONTINUOUS BUFFERS 321 (145) 1 TASCROTT C CONTINUOUS BUFFERS 322 (146) 1 TASCROTT C CONTINUOUS MODE DELAY 332 (146) 1 TASCROTT C CONTINUOUS MODE DELAY 333 (146) 1 TASCROTT C CONTINUOUS MODE DELAY 334 (145) 1 TASCROTT C CONTINUOUS MODE DELAY 335 (146) 1 TASCROTT C CONTINUOUS MODE DELAY 334 (146) 1 TASCROTT C CONTINUOUS MODE DELAY 335 (146) 1 TASCROTT C	6	(114)	4	TASOUTST	F	OUTPUT START RECORD NO.
284 (11C) 4 TASLOGST F START RECORD NO. 18 (120) 4 TASLOGND F LAST RECORD NO. IN AREA 192 (124) 4 TASLOGCR F CURRENT RECORD NO. 194 (126) 4 TASKVERG F START ADDR OF RETRIEVE BUF 196 (126) 4 TASKVERG F START ADDR OF RETRIEVE BUF 196 (126) 4 TASKVERG F PTR TO NEXT CMD FOR RETRIEVE 196 (130) 4 TASKVERU F PTR TO NEXT CMD FOR RETRIEVE 198 (134) 1 TASKVEWI C CTL FLAG FOR RETRIEVE FOTN 198 X'01' RETRIEVE SET ON 199 X'02' DON'T STORE THIS LINE 199 X'04' ENTER-KEY PRESSED 199 X'14' ENTER-KEY PRESSED 199 X'15' LENGTH OF RETRIEVE BUFFER 199 SCREEN AND OUTPUT CONTROL PARAMETERS 190 (140) 4 TASFSFM F ADDR OF LARGE SCREEN TABLE ENTRY 290 (140) 4 TASFSFM F F/S PARM LIST POINTER SAVE AREA 199 TASCREEN AND SUBFIELD DEFINITIONS 199 SCREEN CONTROL VALUES 294 (144) 1 TASCROPT C CONTROL OPTIONS 199 X'01' INDICATES NO SCREEN ERASE 190 X'04' DON'T VALIDATE LENGTH 190 X'04' DON'T VALIDATE LENGTH 190 X'04' DON'T XLATE OUTPUT 190 X'04' SET ON FOR MDT BIT ON 1925 (145) 1 TASCRIPP C NO. LINES IN INP AREA 1926 (146) 1 TASCRST C STARTING UNPUT AREA CLEARED 1927 X'14' 1 TASCROUT C NO. LINES IN NUP AREA 1926 (146) 1 TASCRST C STARTING UNPUT COLUMN 1929 (144) 1 TASCRENT C STARTING UNPUT COLUMN 1929 (144) 1 TASCRENT C STARTING OUTPUT COLUMN 1929 (144) 1 TASCRENT C STARTING UNPUT COLUMN 1929 (144) 1 TASCRENT C STARTING OUTPUT COLUMN 1921 (145) 1 TASCRENT C STARTING OUTPUT COLUMN 1921 (146) 1 TASCRENT C STARTING OUTPUT COLUMN 1921 (146) 1 TASCRENT C STARTING OUTPUT COLUMN 1921 (146) 1 TASCRENT C STARTING OUTPUT COLUMN 1921 (144) 1 TASCRENT C STARTING OUTPUT COLUMN 1931 (144) 1 TASCRENT C STARTING OUTPUT COLUMN 1932 (144) 1 TASCRENT	280	(118)	4	TASOUTND	F	OUTPUT END RECORD NO.
18 (120)       4       TASLORND F       LAST RECORD NO. IN AREA         292 (124)       4       TASLOGER F       CURRENT RECORD NO.         RETRIEVE CONTROL AREA         296 (128)       4       TASRVBEG F       START ADDR OF RETRIEVE BUF         00 (12C)       4       TASRVEND F       END ADDR OF RETRIEVE BUF         04 (130)       4       TASRVEND F       PTR TO NEXT CMD FOR RETRIEVE BUF         04 (130)       4       TASRVENU C       C CTL FLAG FOR RETRIEVE BUF         04 (130)       4       TASRVEWI C       C CTL FLAG FOR RETRIEVE FCTN         X'01'       RETRIEVE SET ON       X'01' STORE THIS LINE         X'04'       ENTER-KEY PRESSED       X'FF' LENGTH OF RETRIEVE BUFFER         SCREEN AND OUTPUT CONTROL PARAMETERS         312 (138)       4       TASCRTAB F       ADDR OF ACTIVE SCREEN TABLE ENTRY         320 (140)       4       TASCREAR F       ADDR OF LARGE SCREEN TABLE ENTRY         320 (140)       4       TASCREAR F       ADDR OF LARGE SCREEN TABLE ENTRY         320 (140)       4       TASCREAR F       ADDR OF LARGE SCREEN TABLE ENTRY         SCREEN CONTROL VALUES         SCREEN CONTROL VALUES         SCREEN CONTROL VALUES				USE	ER LOG C	CONTROL AREA
22 (124)       4       TASLOGCR F       CURRENT RECORD NO.         RETRIEVE CONTROL AREA         296 (128)       4       TASRVBEG F       START ADDR OF RETRIEVE BUF         00 (120)       4       TASRVEND F       END ADDR OF RETRIEVE BUF         04 (130)       4       TASRVEND F       END ADDR OF RETRIEVE BUF         308 (134)       1       TASRVEND F       PTR TO NEXT CMD FOR RETRIEVE FCTN         X'01'       RETRIEVE SET ON       X'02'       DON'T STORE THIS LINE         X'02'       DON'T STORE THIS LINE       X'04'       ENTER-KEY PRESSED         X'101'       RETRIEVE BUFFER       SCREEN AND OUTPUT CONTROL PARAMETERS         312 (138)       4       TASCRTAB       F       ADDR OF ACTIVE SCREEN TABLE ENTR         312 (138)       4       TASCRTAB       F       ADDR OF ACTIVE SCREEN TABLE ENTR         312 (138)       4       TASCRTAB       F       ADDR OF ACTIVE SCREEN TABLE ENTR         312 (138)       4       TASCRTAB       F       ADDR OF ACTIVE SCREEN TABLE ENTR         312 (140)       4       TASCREAR       F       ADDR OF ACTIVE SCREEN TABLE ENTR         312 (144)       1       TASCREAR       F       ADDR OF A	284	(11C)	4	TASLOGST	F	START RECORD NO.
RETRIEVE CONTROL AREA         296 (128)       4       TASRVEEG F       START ADDR OF RETRIEVE BUF         04 (120)       4       TASRVEND F       END ADDR OF RETRIEVE BUF         04 (130)       4       TASRVEND F       PTR TO NEXT CMD FOR RETRIEVE         05 (134)       1       TASRVSWI C       CTL FLAG FOR RETRIEVE FCTN         X'01'       RETRIEVE SET ON       X'02'       DON'T STORE THIS LINE         X'02'       DON'T STORE THIS LINE       X'04'       ENTER-KEY PRESSED         X'102       DON'T STORE THIS LINE       X'04'       ENTER-KEY PRESSED         312 (138)       4       TASCRTAB       F       ADDR OF ACTIVE SCREEN TABLE ENTR         312 (138)       4       TASCRTAB       F       ADDR OF ACTIVE SCREEN TABLE ENTR         316 (13C)       4       TASCREAR       F       ADDR OF ACTIVE SCREEN TABLE ENTR         320 (140)       4       TASCREAR       F       ADDR OF ACTIVE SCREEN TABLE ENTRY         320 (140)       4       TASCREAR       F       ADDR OF ACTIVE SCREEN TABLE ENTRY         SCREEN AND SUBFIELD DEFINITIONS         SCREEN CONTROL VALUES         24 (144)       1       TASCROPT C       CONTROL OPTIONS         X'01'       INDICAT	<b>)</b> 8	(120)	4	TASLOGND	F	LAST RECORD NO. IN AREA
296 (128) 4 TASRVBEG F START ADDR OF RETRIEVE BUF 10 (12C) 4 TASRVEND F END ADDR OF RETRIEVE BUF 104 (130) 4 TASRVCUR F PTR TO NEXT CMD FOR RETRIEVE BUF 108 (134) 1 TASRVSWI C CTL FLAG FOR RETRIEVE FCTN 101'RETRIEVE SET ON 102'DON'T STORE THIS LINE 104'ENTER-KEY PRESSED 104'ENTER-KEY PRESSED 112 (138) 4 TASCRTAB F ADDR OF ACTIVE SCREEN TABLE ENTR 116 (13C) 4 TASCRTAB F ADDR OF LARGE SCREEN TABLE ENTR 120 (140) 4 TASFSPRN F F/S PARM LIST POINTER SAVE AREA 121 (144) 1 TASCRED AND SUBFIELD DEFINITIONS 1224 (144) 1 TASCRED C CONTROL VALUES 124 (144) 1 TASCRIPT C CONTROL OPTIONS 125 (145) 1 TASCRIPT C NO. LINES IN INF AREA 125 (145) 1 TASCRIPT C NO. LINES IN INF AREA 126 (146) 1 TASCRIPT C NO. LINES IN NUTPUT AREA 126 (146) 1 TASCRIPT C NO. LINES IN NUTPUT AREA 126 (146) 1 TASCRIPT C NO. LINES IN NUTPUT AREA 126 (146) 1 TASCRIPT C NO. LINES IN NUTPUT AREA 126 (146) 1 TASCRIPT C NO. LINES IN NUTPUT AREA 126 (146) 1 TASCRIPT C NO. LINES IN NUTPUT AREA 126 (146) 1 TASCRIPT C NO. LINES IN NUTPUT AREA 126 (146) 1 TASCRIPT C NO. LINES IN NUTPUT AREA 126 (146) 1 TASCRIPT C NO. LINES IN NUTPUT AREA 126 (146) 1 TASCRIPT C NO. LINES IN NUTPUT AREA 126 (146) 1 TASCRIPT C NO. LINES IN NUTPUT AREA 126 (146) 1 TASCRIPT C NO. LINES IN NUTPUT AREA 127 (147) 1 TASCRUPT C NO. LINES IN NUTPUT AREA 128 (148) 1 TASCRIPT C STARTING OUTPUT COLUMN 129 (144) 1 TASCRIPT C DELAY BETWN CONTINUOUS BUFFERS 131 (145) 1 TASCRIPT C CONTINUOUS MODE DELAY 1322 (142) 1 TASCRIPT C CONTINUOUS MODE DELAY 1332 (142) 1 TASCRIPT C STATUS OF SCREEN	292	(124)	4	TASLOGCR	F	CURRENT RECORD NO.
20 (12C)       4       TASRVEND F       END ADDR OF RETRIEVE BUF         24 (130)       4       TASRVCUR F       PTR TO NEXT CHD FOR RETRIEVE         308 (134)       1       TASRVSWI C       CTL FLAG FOR RETRIEVE FCTN         X'01'       RETRIEVE SET ON       X'02'       DON'T STORE THIS LINE         X'04'       ENTER-KEY PRESED       X'04'       ENTER-KEY PRESED         X'04'       ENTER-KEY PRESED       X'FF'       LENGTH OF RETRIEVE BUFFER         SCREEN AND OUTPUT CONTROL PARAMETERS         312 (138)       4       TASCRTAB       F       ADDR OF ACTIVE SCREEN TABLE ENTRY         320 (140)       4       TASCREAR       F       ADDR OF ACTIVE SCREEN TABLE ENTRY         320 (140)       4       TASCREAR       F       ADDR OF ACTIVE SCREEN TABLE ENTRY         320 (140)       4       TASCREAR       F       ADDR OF ACTIVE SCREEN TABLE ENTRY         320 (140)       4       TASCREAR       F       SCREEN CONTROL VALUES         ZASCREEN AND SUBFIELD DEFINITIONS         SCREEN CONTROL VALUES         ZASCREEN CONTROL VALUES         ZASCREEN CONTROL VALUES         ZASCREEN CONTROL VALUES          NON IF ALARM ON 3270 </td <td></td> <td></td> <td></td> <td>RET</td> <td>TRIEVE C</td> <td>CONTROL AREA</td>				RET	TRIEVE C	CONTROL AREA
04 (130)       4       TASRVCUR F       PTR TO NEXT CMD FOR RETRIEVE         308 (134)       1       TASRVSWI C       C CTL FLAG FOR RETRIEVE FCTN         X'01'       RETRIEVE SET ON       X'02'       DON'T STORE THIS LINE         X'02'       DON'T STORE THIS LINE       X'04'       ENTER-KEY PRESSED         X'17F'       LENGTH OF RETRIEVE BUFFER       SCREEN AND OUTPUT CONTROL PARAMETERS         312       (138)       4       TASCRTAB       F       ADDR OF ACTIVE SCREEN TABLE ENTRY         316       (13C)       4       TASCREAR       F       ADDR OF LARGE SCREEN TABLE ENTRY         320       (140)       4       TASCREAR       F       ADDR OF LARGE SCREEN TABLE ENTRY         320       (140)       4       TASCREAR       F       ADDR OF ACTIVE SCREEN TABLE ENTRY         320       (140)       4       TASCREAR       F       ADDR OF ACTIVE SCREEN TABLE ENTRY         320       (140)       4       TASCREAR       F       ////////////////////////////////////	296	(128)	4	TASRVBEG	F	START ADDR OF RETRIEVE BUF
308 (134)       1       TASRVSWI C       CTL FLAG FOR RETRIEVE FOTN         X'01'       RETRIEVE SET ON       X'02'       DON'T STORE THIS LINE         X'04'       ENTER-KEY PRESSED       X'FF'       LENGTH OF RETRIEVE BUFFER         SCREEN AND OUTPUT CONTROL PARAMETERS         312 (138)       4       TASCRTAB       F       ADDR OF ACTIVE SCREEN TABLE ENTRY         316 (13C)       4       TASCREAR       F       ADDR OF ACTIVE SCREEN TABLE ENTRY         320 (140)       4       TASCREAR       F       ADDR OF LARGE SCREEN TABLE ENTRY         320 (140)       4       TASCREEN AND SUBFIELD DEFINITIONS         SCREEN CONTROL VALUES       CONTROL VALUES         24 (144)       1       TASCROPT       C         X'01'       INDICATES NO SCREEN ERASE       X'02'         X'04'       DON'T VALIDATE LENGTH       X'04'         X'10'       ON IF ALARM ON 3270       X'20'         X'20'       ON IF SCREEN INPUT AREA CLEARED       X'40'         325 (145)       1       TASCROT C       STATING LINE FOR OUTPUT         326 (146)       1       TASCRET C       STATING OUTPUT COLUMN         329 (145)       1       TASCRET C       STATING OUTPUT COLUMN         320 (144)       1<	20	(12C)	4	TASRVEND	F	
X'01' RETRIEVE SET ON X'02' DON'T STORE THIS LINE X'04' ENTER-KEY PRESSED X'FF' LENGTH OF RETRIEVE BUFFER SCREEN AND OUTPUT CONTROL PARAMETERS SCREEN AND OUTPUT CONTROL PARAMETERS 312 (138) 4 TASCRTAB F ADDR OF ACTIVE SCREEN TABLE ENTR 316 (13C) 4 TASCRIAR F ADDR OF LARGE SCREEN TABLE ENTR 320 (140) 4 TASFSFRM F F/S PARM LIST POINTER SAVE AREA TASCREEN AND SUBFIELD DEFINITIONS SCREEN CONTROL VALUES 24 (144) 1 TASCROPT C CONTROL OPTIONS X'01' INDICATES NO SCREEN ERASE X'02' DON'T VALIDATE LENGTH X'04' DON'T XLATE OUTPUT X'10' ON IF ALARM ON 3270 X'20' ON IF SCREEN INPUT AREA CLEARED X'40' SET ON FOR MDT BIT ON 325 (145) 1 TASCRIPP C NO. LINES IN INP AREA 326 (146) 1 TASCRSOT C STARTING UNPUT AREA 326 (146) 1 TASCRSTR C STARTING OUTPUT COLUMN 327 (147) 1 TASCROUT C NO. LINES IN OUTPUT AREA 328 (148) 1 TASCRSTR C STARTING OUTPUT COLUMN 329 (144) 1 TASCRONT C CONTINUOUS BUFFERS 331 (145) 1 TASCONTN C CONTINUOUS MODE DELAY 332 (14C) 1 TASCRST C STATUS OF SCREEN	04	(130)	4	TASRVCUR	F	
X'02' DON'T STORE THIS LINE X'04' ENTER-KEY PRESSED X'FF' LENGTH OF RETRIEVE BUFFER SCREEN AND OUTPUT CONTROL PARAMETERS SCREEN AND OUTPUT CONTROL PARAMETERS 312 (138) 4 TASCRTAB F ADDR OF ACTIVE SCREEN TABLE ENTRY 320 (140) 4 TASCRLAR F ADDR OF LARGE SCREEN TABLE ENTRY 320 (140) 4 TASCRLAR F ADDR OF LARGE SCREEN TABLE ENTRY 320 (140) 4 TASCRLAR F F/S PARM LIST POINTER SAVE AREA TASCREEN AND SUBFIELD DEFINITIONS SCREEN CONTROL VALUES 24 (144) 1 TASCROPT C CONTROL OPTIONS X'01' INDICATES NO SCREEN ERASE X'02' DON'T VALIDATE LENGTH X'04' DON'T VALIDATE LENGTH X'04' DON'T VALIDATE LENGTH X'04' SET ON FOR MDT BIT ON 325 (145) 1 TASCRIPP C NO. LINES IN INP' AREA 326 (146) 1 TASCRSOT C STARTING UNTPUT AREA 326 (146) 1 TASCRSTR C STARTING OUTPUT COLUMN 329 (144) 1 TASCREND C ENDING OUTPUT COLUMN 320 (144) 1 TASCREND C ENDING OUTPUT COLUMN 330 (144) 1 TASCREND C CONTINUOUS BUFFERS 331 (145) 1 TASCRENT C STARTING ONTINUOUS BUFFERS 331 (145) 1 TASCRENT C STARTING ONTINUOUS BUFFERS 331 (146) 1 TASCRENT C STARTING ONTINUOUS BUFFERS 331 (145) 1 TASCRENT C STARTING ONTINUOUS BUFFERS	308	(134)	1	TASRVSWI		
X'04' ENTER-KEY PRESSED X'FF' LENGTH OF RETRIEVE BUFFER SCREEN AND OUTPUT CONTROL PARAMETERS 312 (138) 4 TASCRTAB F ADDR OF ACTIVE SCREEN TABLE ENTRY 320 (140) 4 TASCRIAR F ADDR OF LARGE SCREEN TABLE ENTRY 320 (140) 4 TASCRIAR F F/S PARM LIST POINTER SAVE AREA TASCREEN AND SUBFIELD DEFINITIONS SCREEN CONTROL VALUES 24 (144) 1 TASCROPT C CONTROL OPTIONS X'01' INDICATES NO SCREEN ERASE X'02' DON'T VALIDATE LENGTH X'04' DON'T VALIDATE LENGTH X'04' DON'T VALIDATE LENGTH X'04' DON'T VALIDATE LENGTH X'10' ON IF ALARM ON 3270 X'20' ON IF SCREEN INPUT AREA CLEARED X'40' SET ON FOR MDT BIT ON 325 (145) 1 TASCRIPP C NO. LINES IN INP AREA 326 (146) 1 TASCRSOT C STARTING LINE FOR OUTPUT 327 (147) 1 TASCROUT C NO. LINES IN OUTPUT AREA 328 (148) 1 TASCRSTR C STARTING OUTPUT COLUMN 329 (149) 1 TASCROTT C CONTINUOUS BUFFERS 331 (148) 1 TASCRENT C CONTINUOUS MODE DELAY 332 (14C) 1 TASCRST C STATUS OF SCREEN						
X'FF' LENGTH OF RETRIEVE BUFFER SCREEN AND OUTPUT CONTROL PARAMETERS 312 (138) 4 TASCRTAB F ADDR OF ACTIVE SCREEN TABLE ENTRY 316 (13C) 4 TASCRTAR F ADDR OF LARGE SCREEN TABLE ENTRY 320 (140) 4 TASFSPRM F F/S PARM LIST POINTER SAVE AREA TASCREEN AND SUBFIELD DEFINITIONS SCREEN CONTROL VALUES 24 (144) 1 TASCROPT C CONTROL OPTIONS X'01' INDICATES NO SCREEN ERASE X'02' DON'T VALIDATE LENGTH X'04' DON'T XLATE OUTPUT X'10' ON IF ALARM ON 3270 X'20' ON IF ALARM ON 3270 X'40' SET ON FOR MDT BIT ON 325 (145) 1 TASCROPT C STARTING UNPUT AREA 326 (146) 1 TASCRSOT C STARTING UNPUT AREA 326 (146) 1 TASCRSTR C STARTING OUTPUT CALUMN 327 (147) 1 TASCRET C STARTING OUTPUT COLUMN 329 (148) 1 TASCRET C STARTING OUTPUT COLUMN 330 (144) 1 TASCRET C STARTING OUTPUT COLUMN 331 (145) 1 TASCRET C STATUS OF SCREEN						
SCREEN AND OUTPUT CONTROL PARAMETERS  312 (138) 4 TASCRTAB F ADDR OF ACTIVE SCREEN TABLE ENTRY 316 (13C) 4 TASCRLAR F ADDR OF LARGE SCREEN TABLE ENTRY 320 (140) 4 TASFSPRM F F/S PARM LIST POINTER SAVE AREA  TASCREEN AND SUBFIELD DEFINITIONS  SCREEN CONTROL VALUES  24 (144) 1 TASCROPT C CONTROL OPTIONS  X'01' INDICATES NO SCREEN ERASE X'02' DON'T VALIDATE LENGTH X'04' DON'T XLATE OUTPUT X'10' ON IF ALARM ON 3270 X'20' ON IF SCREEN INPUT AREA CLEARED X'40' SET ON FOR NDT BIT ON  325 (145) 1 TASCRIP C NO. LINES IN INF AREA 326 (146) 1 TASCRSOT C STARTING UNPUT AREA 326 (146) 1 TASCRET C STARTING OUTPUT COLUMN 329 (149) 1 TASCRET C STARTING OUTPUT COLUMN 330 (14A) 1 TASCRET C STARTING OUTPUT COLUMN 331 (14B) 1 TASCROTT C CONTINUOUS MODE DELAY 332 (14C) 1 TASCRST C STATUS OF SCREEN						
312 (138)       4       TASCRTAB F       ADDR OF ACTIVE SCREEN TABLE ENTRY         316 (13C)       4       TASCREAR F       ADDR OF LARGE SCREEN TABLE ENTRY         320 (140)       4       TASCREAR F       ADDR OF LARGE SCREEN TABLE ENTRY         320 (140)       4       TASFSFRM F       F/S PARM LIST POINTER SAVE AREA         TASCREEN AND SUBFIELD DEFINITIONS         SCREEN CONTROL VALUES         24 (144)       1       TASCROPT C       CONTROL OPTIONS         X'01'       INDICATES NO SCREEN ERASE       X'02'       DON'T VALIDATE LENGTH         X'04'       DON'T VALIDATE LENGTH       X'04'       DON'T VALIDATE LENGTH         X'04'       DON'T VALIDATE LENGTH       X'04'       SCREEN INPUT AREA CLEARED         325 (145)       1       TASCRIPP C       NO. LINES IN INP' AREA         326 (146)       1       TASCROUT C       NO. LINES IN NUP AREA         326 (146)       1       TASCRENT C       STARTING OUTPUT COLUMN         329 (143)       1       TASCROUT C       NO. LINES IN OUTPUT COLUMN         320 (144)       1       TASCRENT C       STARTING OUTPUT COLUMN         321 (148)       1       TASCROUT C       DONINGUT MOUTS MODE DELAY         331 (144)       1 <td< td=""><td></td><td></td><td></td><td></td><td>X'FF'</td><td>LENGTH OF RETRIEVE BUFFER</td></td<>					X'FF'	LENGTH OF RETRIEVE BUFFER
316 (13C)       4       TASCRLAR F       ADDR OF LARGE SCREEN TABLE ENTRY         320 (140)       4       TASFSPRM F       F/S PARM LIST POINTER SAVE AREA         TASCREEN AND SUBFIELD DEFINITIONS         SCREEN CONTROL VALUES         24 (144)       1       TASCREEN AND SUBFIELD DEFINITIONS         24 (144)       1       TASCROPT C       CONTROL VALUES         24 (144)       1       TASCROPT C       CONTROL OPTIONS         X'01' INDICATES NO SCREEN ERASE         X'02' DON'T VALIDATE LENCTH         X'04' DON'T XLATE OUTPUT         X'00' ON IF ALARM ON 3270         X'20' ON IF ALARM ON 3270         X'40' SET ON FOR MDT BIT ON         325 (145)         TASCRIP C       NO. LINES IN INP AREA         326 (146)       1         TASCRENT C       STATING OUTPUT COLUMN         329 (148)       1       TASCREND C       ENDING OUTPUT COLUMN <td></td> <td></td> <td></td> <td>SCREEN AND</td> <td>OUTPUT</td> <td>CONTROL PARAMETERS</td>				SCREEN AND	OUTPUT	CONTROL PARAMETERS
320 (140)       4       TASFSFRM F       F/S PARM LIST POINTER SAVE AREA         TASCREEN AND SUBFIELD DEFINITIONS         SCREEN CONTROL VALUES         24 (144)       1       TASCROPT C       CONTROL OPTIONS         X'01'       INDICATES NO SCREEN ERASE         X'02'       DON'T VALIDATE LENGTH         X'04'       DON'T VALIDATE LENGTH         X'10'       ON IF ALARM ON 3270         X'20'       NI F SCREEN INPUT AREA CLEARED         325       145)       1         326       146)       1         327       144)       1         328       1448)       1         331       148)       1         332       1440)       1         332       1440)       1         332       1440)       1	312	(138)	4	TASCRTAB	F	ADDR OF ACTIVE SCREEN TABLE ENTRY
TASCREEN AND SUBFIELD DEFINITIONS         SCREEN CONTROL VALUES         24 (144)       1       TASCROPT C       CONTROL OPTIONS         x'01'       INDICATES NO SCREEN ERASE         x'02'       DON'T VALIDATE LENGTH         x'04'       DON'T XLATE OUTPUT         x'10'       ON IF ALARM ON 3270         x'20'       ON IF ALARM ON 3270         x'20'       ON IF SCREEN INPUT AREA CLEARED         325 (145)       1       TASCRIPP C         326 (146)       1       TASCROUT C         327 (147)       1       TASCROUT C         329 (144)       1       TASCRETR C         321 (148)       1       TASCROTD C         331 (148)       1       TASCRETR C         331 (146)       1       TASCRETR C         331 (146)       1       TASCRETR C         331 (146)       1       TASCRET C	316	(13C)	4	TASCRLAR	F	ADDR OF LARGE SCREEN TABLE ENTRY
SCREEN CONTROL VALUES 24 (144) 1 TASCROPT C CONTROL OPTIONS X'01' INDICATES NO SCREEN ERASE X'02' DON'T VALIDATE LENGTH X'04' SET ON FOR	320	(140)	4	TASFSPRM	F	F/S PARM LIST POINTER SAVE AREA
24 (144) 1 TASCROPT C CONTROL OPTIONS X'01' INDICATES NO SCREEN ERASE X'02' DON'T VALIDATE LENGTH X'04' DON'T XLATE OUTPUT X'10' ON IF ALARM ON 3270 X'20' ON IF SCREEN INPUT AREA CLEARED X'40' SET ON FOR MDT BIT ON 325 (145) 1 TASCRIP C NO. LINES IN INF AREA 326 (146) 1 TASCRSOT C STARTING LINE FOR OUTPUT 327 (147) 1 TASCROUT C NO. LINES IN OUTPUT AREA 328 (148) 1 TASCRET C STARTING OUTPUT COLUMN 329 (144) 1 TASCRED C ENDING OUTPUT COLUMN 330 (144) 1 TASCRET C DELAY BETWN CONTINUOUS BUFFERS 331 (145) 1 TASCRST C STATUS OF SCREEN				TASCREEN	AND SUI	BFIELD DEFINITIONS
<ul> <li>X'01' INDICATES NO SCREEN ERASE</li> <li>X'02' DON'T VALIDATE LENGTH</li> <li>X'04' DON'T XLATE OUTPUT</li> <li>X'10' ON IF ALARM ON 3270</li> <li>X'20' ON IF ALARM ON 3270</li> <li>X'20' ON IF SCREEN INPUT AREA CLEARED</li> <li>X'40' SET ON FOR MDT BIT ON</li> <li>325 (145) 1 TASCRIP C NO. LINES IN INF AREA</li> <li>326 (146) 1 TASCRET C STARTING UNPUT AREA</li> <li>328 (146) 1 TASCRET C STARTING OUTPUT COLUMN</li> <li>329 (149) 1 TASCRET C STARTING OUTPUT COLUMN</li> <li>30 (144) 1 TASCRET C DELAY BETWN CONTINUOUS BUFFERS</li> <li>331 (145) 1 TASCRET C STATUS OF SCREEN</li> </ul>				SCI	REEN COM	NTROL VALUES
<ul> <li>X'02' DON'T VALIDATE LENGTH</li> <li>X'04' DON'T XLATE OUTPUT</li> <li>X'10' ON IF ALARM ON 3270</li> <li>X'20' ON IF SCREEN INPUT AREA CLEARED</li> <li>X'40' SET ON FOR MDT BIT ON</li> <li>325 (145) 1 TASCRIP C NO. LINES IN INP AREA</li> <li>326 (146) 1 TASCROUT C NO. LINES IN OUTPUT AREA</li> <li>328 (148) 1 TASCRET C STARTING OUTPUT COLUMN</li> <li>329 (149) 1 TASCRET C STARTING OUTPUT COLUMN</li> <li>30 (144) 1 TASCRET C DELAY BETWN CONTINUOUS BUFFERS</li> <li>331 (142) 1 TASCONT C CONTINUOUS MODE DELAY</li> <li>332 (142) 1 TASCRET C STATUS OF SCREEN</li> </ul>	24	(144)	1	TASCROPT	с	CONTROL OPTIONS
X'04' DON'T XLATE OUTPUT X'10' ON IF ALARM ON 3270 X'20' ON IF ALARM ON 3270 X'20' ON IF SCREEN INPUT AREA CLEARED X'40' SET ON FOR MDT BIT ON 325 (145) 1 TASCRIPP C NO. LINES IN INF AREA 326 (146) 1 TASCRSOT C STARTING LINE FOR OUTPUT 327 (147) 1 TASCROUT C NO. LINES IN OUTPUT AREA 328 (148) 1 TASCRST C STARTING OUTPUT COLUMN 329 (149) 1 TASCREND C ENDING OUTPUT COLUMN 30 (144) 1 TASCELAY C DELAY BETWN CONTINUOUS BUFFERS 331 (148) 1 TASCRST C STATUS OF SCREEN					X'01'	INDICATES NO SCREEN ERASE
X <sup>1</sup> 10 <sup>'</sup> ON IF ALARM ON 3270 X <sup>2</sup> 20 <sup>'</sup> ON IF SCREEN INPUT AREA CLEARED X <sup>4</sup> 40 <sup>'</sup> SET ON FOR MDT BIT ON 325 (145) 1 TASCRIPP C NO. LINES IN INP AREA 326 (146) 1 TASCRSOT C STARTING LINE FOR OUTPUT 327 (147) 1 TASCROTT C NO. LINES IN OUTPUT AREA 328 (148) 1 TASCRENT C STARTING OUTPUT COLUMN 329 (149) 1 TASCRENT C ENDING OUTPUT COLUMN 330 (144) 1 TASCELAY C DELAY BETWN CONTINUOUS BUFFERS 331 (148) 1 TASCRST C STATUS OF SCREEN					X'02'	DON'T VALIDATE LENGTH
X <sup>1</sup> 20 <sup>'</sup> ON IF SCREEN INPUT AREA CLEARED X <sup>1</sup> 40 <sup>'</sup> SET ON FOR MDT BIT ON 325 (145) 1 TASCRINP C NO. LINES IN INF AREA 326 (146) 1 TASCRSOT C STARTING LINE FOR OUTPUT 327 (147) 1 TASCROT C NO. LINES IN OUTPUT AREA 328 (148) 1 TASCRSTR C STARTING OUTPUT COLUMN 329 (149) 1 TASCREND C ENDING OUTPUT COLUMN 30 (144) 1 TASDELAY C DELAY BETWN CONTINUOUS BUFFERS 331 (145) 1 TASCRSTR C STATUS OF SCREEN					X'04'	DON'T XLATE OUTPUT
X'40'SET ON FOR MDT BIT ON325 (145)1TASCRINPCNO. LINES IN INF AREA326 (146)1TASCRSOTCSTARTING LINE FOR OUTPUT327 (147)1TASCROUTCNO. LINES IN OUTPUT AREA328 (148)1TASCRSTCSTARTING OUTPUT COLUMN329 (149)1TASCRENDCENDING OUTPUT COLUMN30 (144)1TASCELAYCDELAY BETWN CONTINUOUS BUFFERS331 (14B)1TASCRSTCSTATUS OF SCREEN332 (14C)1TASCRSTCSTATUS OF SCREEN						
325 (145)1TASCRINPCNO. LINES IN INF AREA326 (146)1TASCRSOTCSTARTING LINE FOR OUTPUT327 (147)1TASCRSUTCNO. LINES IN OUTPUT AREA328 (148)1TASCRSTCSTARTING OUTPUT COLUMN329 (149)1TASCRENDCENDING OUTPUT COLUMN30 (14A)1TASCRENTCDELAY BETWN CONTINUOUS BUFFERS331 (14B)1TASCRSTCONTINUOUS MODE DELAY332 (14C)1TASCRSTCSTATUS OF SCREEN						
326 (146)       1       TASCRSOT C       STARTING LINE FOR OUTPUT         327 (147)       1       TASCROUT C       NO. LINES IN OUTPUT AREA         328 (148)       1       TASCRENT C       STARTING OUTPUT COLUMN         329 (149)       1       TASCREND C       ENDING OUTPUT COLUMN         30 (144)       1       TASCELAY C       DELAY BETWN CONTINUOUS BUFFERS         331 (148)       1       TASCONTN C       CONTINUOUS MODE DELAY         332 (14C)       1       TASCENT C       STATUS OF SCREEN	-				X'40'	
327(147)1TASCROUTCNO. LINES IN OUTPUT AREA328(148)1TASCRSTRCSTARTING OUTPUT COLUMN329(149)1TASCRENDCENDING OUTPUT COLUMN30(14A)1TASDELAYCDELAY BETWN CONTINUOUS BUFFERS331(14B)1TASCRSTRCCONTINUOUS MODE DELAY332(14C)1TASSCRSTCSTATUS OF SCREEN						
328       148)       1       TASCRSTR C       STARTING OUTPUT COLUMN         329       (149)       1       TASCREND C       ENDING OUTPUT COLUMN         30       (14A)       1       TASDELAY C       DELAY BETWN CONTINUOUS BUFFERS         31       (14B)       1       TASCRSTR C       CONTINUOUS MODE DELAY         322       (14C)       1       TASSCRST C       STATUS OF SCREEN						
329       (149)       1       TASCREND C       ENDING OUTPUT COLUMN         30       (14A)       1       TASDELAY C       DELAY BETWN CONTINUOUS BUFFERS         31       (14B)       1       TASCONTN C       CONTINUOUS MODE DELAY         322       (14C)       1       TASSCRST C       STATUS OF SCREEN						
30     (14A)     1     TASDELAY     C     DELAY BETWN CONTINUOUS BUFFERS       331     (14B)     1     TASCONTN     C     CONTINUOUS MODE DELAY       332     (14C)     1     TASSCRST     C     STATUS OF SCREEN						
331 (14B) 1 TASCONTN C CONTINUOUS MODE DELAY 332 (14C) 1 TASSCRST C STATUS OF SCREEN						
332 (14C) 1 TASSCRST C STATUS OF SCREEN						
X'01' ALTERNATE SCREEN SIZE INDICATOR	332	(140)	) 1	TASSCRST		
					X'01'	ALTERNATE SCREEN SIZE INDICATOR

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OFFSET	LENGTH	NAME	TYPE	DESCRIPTION
		X'04' X'08' X'10' X'20' X'40'		
333 (14D)	1	TASCRSTA		STATUS OF SCREEN
334 (14E)		TASCREST	C X'01' X'02' X'04' X'08' X'10' X'20' X'40'	RESTORE SCREEN (FOR EDITOR) REMEMBER F/S-REQ WAS R-TYPE REMEMBER F/S-REQ WAS T-TYPE

#### 3270 EXTENDED FEATURES

335	(14F)	1	TASCREF	С	3270 EXTENDED FEATURES
				X'80	EXT. DATASTREAM SUPPORTED
				X'40	COLOR SUPPORTED
				X'20	PSS SUPPORTED
				X'10	HIGHLIGHT SUPPORTED
				X'08	VALIDATION SUPPORTED
				X'04	PARTITION SUPPORTED
				X'02	MSR CNTRL SUPPORTED
336	(150)	1	TASCRE2	С	3270 EXTENDED FEATURES
				X'80	FIELD OUTLINING SUPPORTED
				X'40	MIXED FIELD SUPPORTED
					(OTHER BITS RESERVED FOR
					FUTURE USE (SEE CICS))
337	(151)	1	TASCREFS	с	FLAG BYTE FOR F/S R/W
	()	-		-	CONTROLS 1 'SVC 82 CYCLE'
				X'80	DATASTREAM ERROR
				X'40	AUT.MSG.DISPLAY SUPPRESSED
				X'08	WRITE STRUCT.FIELD REQUEST
				X'02	WF WITH READ PART.QUERY

RETURNCODES FROM F/S R/W

X'04'	SHORT ON STORAGE
X'08'	USER MUST RESTORE
X'OC'	/WARN ISSUED
X'10'	INVALID OUTPUT DATASTREAM

	OFFSET		LENGTH		TYPE	
6					x'14'	EDS NOT SUPPORTED
					X'1C'	INVALID PARAMETER LIST
					X'20'	DATASTREAM ERROR
					X'40'	AUT.MSG.DISPLAY SUPPRESSED
				PROGRA	M FUNCT	TION KEY CONTROL
1						
-		52)	1	TASPFMD		ALL, LIST, EDIT, EXEC. MODES
	340 (1)	-		TACDICLIT	C	UNUSED CURRENT PF OFFSET INTO TABLE
				TASPFSWT		SWITCHES - 0 INDICATES PF NOT SET
	344 (1)			TASPFKEY SPFKSV F		TCHES FOR SAVE OF PF-KEYS
	360 (10		41A	SPFKSV F	5W1	ICHES FOR SAVE OF PF-KEYS
	_			INPU	T CONTR	OL CHARACTERS
	364 (10	6C)	0	TASDEFLT	OCL8	DEFAULTS FROM USER ID RECORD
	364 (10			TASDELC	C	DELETE CHARACTER
	365 (10		1	TASTABC	-	TAB CHARACTER
	366 (1			TASBSC	с	BACKSPACE CHARACTER
	367 (1			TASEND	с	LINE END CHARACTER
	368 (1			TASESC	с	ESCAPE CHARACTER
				TASESC		HEX CONTROL CHARACTER
	369 (1			TASLNSZ		LINE SIZE PARAMETER
	370 (1			TASTN27	c	
	371 (1 372 (1			TASTABS	•	UNUSED TAB SETTINGS
خد	an deciminant the same			CONT	ROL MAC	RO PROCESSING
	384 (1	80)	4	TASMACCR	F	CURRENT MACRO PROCESSING RECORD
	388 (1	84)	2	TASMACLM	н	LIMIT ON MACRO READS
É	2 (1	86)	1	TASMACSW	С	MACRO CONTROL SWITCH
<b>.</b>					X'01'	ON IF LIMIT ALREADY SET
	391 (1	87)	1	TASMCNEW	с	EXIT: NEW COMMAND IN TX13
				MISCELLA	NEOUS CO	ONTROL INFORMATION
7	۲ <u>2</u> (1	88)	4	TASEXPCR	F	CURRENT COMPRESSION ROUTINE POINTER
6	(1	8C)	4	TASRSTAD	А	RESTART ADDRESS AFTER ROLL-OUT
	400 (1	90)	8	SAVEA	CL8	SAVE AREA
	408 (1	98)	8	SAVEB	CL8	*
	416 (1	A0)	8	TASSVC	2F	SAVE AND WORK AREA
	424 (1	A8)	8	TASSVD	2F	SAVE AND WORK AREA
7	32 (1	B0)	8	TASSVE	2F	SAVE AREA
L	(1	B8)	4	TASPSTAD	A	ADDR OF CICS ECB FOR FG AWAKE
	44 (1	BC)	2	TASTTYPE	CL2	DEVICE TYPE
	446 (1	BE)	2	TASRSV08	CL2	RESERVED
	448 (1			TASRSV06	F	USED IN FULL SCREEN EDITOR

Lice	ensed 1	faterial -	- Property	of IBM		
OFFS	SET	LENGTH	NAME	TYPE	DESCRIPTION	
		NEXT	EQUATES	X'80'	FIRST BYTE OF TASRSVO6 SPECIAL HANDLING FOR TXOO AND EDIT REMEMBER MSG35 FOR FS-EDIT	) )
456 460 464	(1C8) (1CC) (1DO)	4 4 8	TASRSVCP TASSEC TASAUT TASSVF TASD\$EXC	F F 2F	32-1 SECURITY CLASSES	\ \ \
476	(1DC)				TX08 AND RESET BY CJENT OR 2. LEVEL SVC HANDLER. NAME OF UNRESOLVED INCLUDE	
484	(1E4)	4	TASPTRFW	A	FORWARD CHAINING TO NEXT TAS LAST TAS IN CHAIN HAS O POINTER.	
	(1E8)		TASPTRBW	Α	BACKWARD CHAIN TO PREVIOUS TAS FIRST TAS IN CHAIN HAS O POINTER.	•
492	(1EC)	.4	TASTCTUA	А	ADDR OF TCTUA	

MESSAGE COMMUNICATION FLAGS FOR COMMUNICATION BETWEEN NOTIFY TASK, LOGON PROCESSOR(TX01), /NSG-COMMAND(TX04) AND ICCF

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496	(1F0)	8	TASMTIME	D	TIME STAMP OF LAST COMMON MESSAGE
					DISPLAYED
504	(1F8)	0	TASMECBU	OXL4	EVENT CONTROL BLOCK FOR USER MESSAGES
504	(1F8)	2		XL2	RESERVED
506	(1FA)	1	TASMECBT	Х	TRAFFIC FLAG
				X'80'	POST INDICATION
507	(1FB)	1	TASMECBS	х	TEST AND SET CONTROL
508	(1FC)	1	TASLGCNT	х	LOGON COUNT, IF OO LOGON COMPLETE,
					IF NOT OO LOGON IN PROCESS. SET AT
					INITIAL ENTRY BY TX01 TO NOT 00,
					RESET ALSO BY TX01. TESTED BY ICC.
					TO PREVENT I\$\$7 FROM BEING EXECUTED
509,	(1FD)	1	TASMSGF	х	MESSAGE MODE FLAG
				X'01'	MESSAGE EXISTING IN COMMON MEMBER
				X'02'	MESSAGE EXISTING IN USER'S MEMBER
				X'04'	FORCE AUTOMATIC MSGS FOR COMMON MSGS
				X'08'	FORCE AUTOMATIC MSGS FOR USER MSG
					SET BY NOTIFY TASK; RESET BY TX04
					AFTER MSG DISPLAY; TESTED BY ICCF TO
					SEE WHETHER I\$\$7 CAN BE STARTED OR

	OFFSET	LENGTH	NAME	TYPE	DESCRIPTION
					TERMINATED
É				X'10'	MESSAGE DISPLAY IN PROCESS
1					FOR COMMON MSG (TX04 ONLY)
				X'20'	MESSAGE DISPLAY IN PROCESS
					FOR USER MSG (TX04 ONLY)
				X'40'	MESSAGE MODE 'MS' SET IF I\$\$7
					STARTED; SET IN TX04 AFTER TX00
Ĺ					FOUND /MSG; TESTED BY DTSHIGH,
6					SAME ACTION AS FOR ASYNCH MODE;
					RESET AFTER SCREEN REBUILD;
					RESET BY ICCF AFTER MSGCLOSE IF
					NON-AUTOMATIC, TESTED BY ICCF TO
					PREVENT RECURSIVE CALLING MSG
1					COMMAND PROC.; TESTED IN TX04 TO
L					SEE IF 'CONTINUOUS' ENTRY.
				X'80'	SET BY TX04 AT END OF MSG
					PROCESSING AFTER ALL MSGS ARE
					DISPLAYED. RESET BY ICCF.

SAVE AREAS FOR MSG DISPLAY (TX04)

	510	(1FE)	2	TASLIBNO	Н	ACTUAL LIB NO. BEFORE MSG DISPLAY
	512	(200)	4	TASLIBR1	F	RECORD NO. OF LIB 1 HEADER RECORD
	516	(204)	4	TASMFWD	F	FORWARD POINTER OF MSG DISPLAY
	520	(208)	4	TASMBWD	F	BACKWARD POINTER OF MSG DISPLAY
4	524	(20C)	4	TASMPTR1	F	ADDR OF DUMMY RECORD
	528	(210)	4	TASMPTR3	F	ADDR OF CURRENT RECORD(2)
	532	(214)	4	TASMPTR2	F	ADDR OF CURRENT RECORD(1)
	536	(218)	4	TASMPTR4	F	BACKWARD POINTER OF CURRENT RECORD
1	540	(21C)	4	TASMDUSR	F	NO. OF DIRECTORY REC FOR MSG\$USERID
(	÷	(220)	4	TASLBSAV	F	SAVE AREA FOR TASLBPTR
1	48	(224)	1	TASSELF	CL1	FLAG FOR SAME USERID
	549	(225)	1	TASMTZ	CL1	X'00' IF NO MSGS IN TIOA
						X'C6' IF ERRORS IN MSG DISPLAY
						X'FF' IF MESSAGES IN TIOA

Ĺ			SA	VE ARE	AS FOR I\$\$7
550	(226)	2	TAS\$7TIL	н	LENGTH OF TIO2
552	(228)	1	TAS\$7AID	CL1	SAVE AREA FOR AID
553	(229)	2	TAS\$7CUR	CL2	SAVE AREA FOR CURSOR
555	(22B)	1	TAS\$7COM	CL1	SAVE AREA FOR LAST COMMAND CODE
6 6	(22C)	4	TAS\$7TIO	F	SAVE AREA FOR TIOA2 OF INTERROGATED
					TRANSACTION; CONTAINS 'MSGT' IF CICS
560	(230)	1	TAS\$7CMM	CL1	SAVE AREA COMMAND MODIFIER

OFFSET	LENGTH	NAME	TYPE	DESCRIPTION
561 (231)	4	TAS\$7TRN	CL4	SAVE AREA FOR INTERROGATED TRANSACTN
565 (235)	1	TAS\$7SCR	CL1	SAVE AREA FOR TASFSW, TASFSWO,
				TASFSCMD FLAGS OF TASSCRST
566 (236)	1	TAS\$7EDS	CL1	SAVE AREA FOR TASFULL FLAG IN
				TASEDSWT

SAVE AREAS FOR RETURN CODES

					/	1
567	(237)	8	TASRTCD	CL8	RETURN CODE FOR MACRO PROCESSING	
575	(23F)	1		С	UNUSED	
576	(240)	4	TASNUMRC	F	NUMERIC RETURN CODE	
					NUMERIC RETURN CODES BELOW X'80' ARE	
					TO BE USED FOR ICCF CANCEL CODES	
					INDICATING THE REASON OF TERMINATION	~
					OF AN INTERACTIVE PARTITION	
				X'81'	EXEC REQST REJECTED; NO IP	1
				X'88'	ERROR IN /LIST (TASLSTER ON)	
				X'01'	POWER COMMAND ERROR CODE	
					X'000001NN' NN X'01' TO	
					X'89' SET BY DTSIXP/DTSTX03	
580	(244)	0	TASEXINF	OF	EXECUTION RETURN INFORMATION	
580	(244)	2	TASEXRCE	н	EXECUTION RETURN CD EXTENTN	
582	(246)	2	TASEXRC	н	EXECUTION RETURN CODE	•

SWITCH FOR GETMENB IN TXOO AND TXO8

584	(248)	1	TASGMEMB	CL1	C'M' GETMEMB FOR MACRO PROCESSING	*
					ALREADY DONE	
					C'P' GETMEMB FOR PROCEDURE	
					PROCESSING ALREADY DONE	
					C' ' SWITCH CLEARED	$\sim$
585	(249)	3		CL3	UNUSED	( )

CONTROL AREA FOR THE ICCF/CICS INTERFACE

588	(24C)	4	TASIPWA	F	ADDRESS OF ISSP TRANSACTION WORK AREA
592	(250)	1	TASIPMOD	х	I\$\$P PROCESSING SWITCHES
				X'80'	I/O TO REAL TERM REQUESTED,
					E.G. FOR LIST MODE
				X'40'	I/O GOES TO REAL TERMINAL
				X'20'	NATIVE ICCF MODE REQUESTED
				X'08'	LOGON IN PROCESS SIMULATED SESSION
				X'04'	RETURN TO CALLER
				X'02'	COMMAND IN DISTCCB INPUT BUFFER
				X'01'	NATIVE ICCF MODE

	OFFSET	LENGTH	NAME	TYPE	DESCRIPTION
(			COPIEI	D FIELD:	S FROM DTSIGEN
	<b>5</b> 93 (251)	) 1	TASGEN01	CL1	GENOPT1 COPIED FROM DISIGEN
	594 (252	) 2	TASCMLIB	Н	COMLIB NO. COPIED FROM GENCOMLB; COPIED IN TXO1 AT /LOGON
7			FO	RCED LO	GOFF CONTROL
l.					<u> </u>
	596 (254	) 1	TASLOCKE	х	LOCK BYTE FOR TAS NOT 0, XACTION ACTIVE FOR IT
	597 (255	) 1	TASLGFSW	v	FORCED LOGOFF INDICATOR
	397 (233	) 1	INSTOLOGY		IF ON-USER WILL BE FORCED
				A 01	I.E. NO MORE ACCESS TO TERM
1				X'02'	
	-			11 02	NEXT TIME ICCF GETS CONTROL
	598 (256	) 1	TASPFLPC	x	PF LOOP COUNT TO FIND RECURSIVE
	0,0 (100	, -			PF CMD CALLS IN FS-ED
		BG 1	EXECUTION U	NDER PR	OGRAM CONTROL ([2ND IP])
	599 (257	) 1	TASSESS	CL1	SESSION TYPE
				X'00'	
				X'01'	
				X'02'	
•				X'40'	REAL SESSION TO BE CANCELED
					DUE TO TERMINAL TIMEOUT
				X'80'	
					DUE TO OPERATOR CANCELED PP
	600 (258	) 4	TASSIMUL	Α	PTR TO TAS OF THE SIMULATED
1					SESSION, WHICH RUNS UNDER DISCLPR IN THE REAL SESSION
1					
			m. anun an		REPRESENTED BY THIS TAS.
	604 (250		TASPWRCB		ADDR <sub>1</sub> OF POWER INTERFACE CNTRL BLOCKS LAST CHAR OF ORIGINAL XACTION
	608 (260 609 (261		TASTRNSV TASTSKSV		PACKED CURRENT TASK NUMBER
					DOUBLE BYTE SUPPORT
					<u> </u>
	612 (264	) 4	TASDBSWK	F	ADDR OF DB SUPPORT WORK AREA
	616 (268	) 1	TASDBCTL	х	DB SUPPORT CONTROL SWITCHES
				X'80'	DB SUPPORT INITIALIZED
				•	ON - IF 5550 MIXED FIELD
1				X'40'	5550 DOUBLE BYTE DISPLAY MODE
	-				ON - IF DB SUPPORT INITIALIZED
					(POWER/SPOOL LIST & DBCS MEM IF LIST
				X'10'	5550 MIXED FIELD TERM ASSOCIATED

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OFFSET	LENGTH	NAME	TYPE	DESCRIPTION	
617 (269) 618 (26A) 620 (26C)	2	TASSPC TASPATCH	CL1 CL2 5F	WITH SIMULATED SESSION (INFO REQUIRED IN MSGIO) EDT SPECIAL SUBSTITION CHAR UNUSED PATCH AREA	Ċ

#### ICCF TASK CONTROL BLOCK

'ECT NAME: DTSTCQD

IF THERE IS AN EXECUTION REQUEST, THE HIGH PRIORITY TASK CONNECTS A TASK CONTROL BLOCK TO A PICB AND THE INITIATING RQE. THAN A BOOTSTRAP ROUTINE IS MOVED INTO THE INTERACTIVE PARTITION AND THE TASK IS ATTACHED BY THE HIGH PRIORITY TASK. THE TASK CONTROL BLOCK CONTAINS IF ACTIVE A POINTER "> THE ASSOCIATED PICB AND THE INITIATING RQE. ALSO IT CONTAINS THE TASK 3 AND THE /VSE TASK SAVE AREA.

THE FIRST BLOCK IS FOR THE HIGH PRIORITY TASK AND CONTAINS NEITHER A POINTER TO A PICE BLOCK NOR TO AN RQE ENTRY. THE SECOND BLOCK IS FOR THE TERMINAL CONTROL TASK AND CONTAINS NO POINTER TO A RQE ENTRY. THIS TWO TASKS ARE ALWAYS ATTACHED. ALL FOLLOWING ENTRIES IN THE QUEUE ARE FOR TERACTIVE PARTITIONS. THE TCQ IS PFIXED DURING THE WHOLE ICCF SESSION.

OFFSE	Т	LENGTH	NAME	TYPE	DESCRIPTION
0	(0)	8	TCQRCB	CL8	RESOURCE CONTROL BLOCK
		* * * *	PRECEDES	ONLY TH	E FIRST TCQ ENTRY

				5	START OI	F TCQ AREA
	8	(8)	1	TCQIDNT	С	TASK IDENTIFICATION NO.
	9	(9)	1	TCQSTAT	С	TASK STATUS
					X'01'	ON IF TASK MAY NOT BE DETACHED. THIS
*						IS TRUE FOR TIMER CONTROL AND MTCS
					X'02'	ON IF TASK AREA CURRENTLY ATTACHED
					X'04'	ON IF TASK IN USE
					X'08'	TASK WAS FREE AND SELECTED FOR ATTACH
					X'10'	TASK AREA IS ACTIVE AND DOS TASK IS
£						NOT YET DETACHED
	10	(A)	1	TCQTIME	С	TIME USED DURING THIS SLICE
	11	(B)	1	TCQSLICE	С	TIME THIS TASK TO RUN
	12	(C)	1	TCQPRTY	С	CURRENT PRIORITY WITHIN ICCF
	13	(D)	3		CL3	UNUSED
	16	(10)	4	TCQECB	F	TASK ECB
1	0٢	(14)	4	TCQWAITS	F	COUNT OF WAITS SINCE LAST SCAN
-	4	(18)	4	TCQRQE	F	ADDRESS OF REQUEST QUEUE ENTRY
-	28	(1C)	4	TCQPCIB	F	ADDRESS OF ACTIVE PCIB

START OF TASK SAVE AREA

How to locate: Displ. X'18' (MCSTCQ) of the MCSA contains the addr. of the TCQE. (Reg.12 will normally point to the TCQE.)

OFFS	ET	LENGTH	NAME	TYPE	DESCRIPTION
			TOORAUE	001174	TACK CAUE ADEA
32 32	(20)	0 8	TCQSAVE TCQNAME	CL8	TASK SAVE AREA TASK NAME
40	(28)	8	TCQPSW	CL8	INTERRUPT PSW FOR RESTART
40	(30)	4	TCQREG9	F	REGISTER 9
40 52	(30)	4	TCQREGA	F	REGISTER A
56	(34)	4	TCQREGB	F	REGISTER B
60	(3C)	4	TCQREGC	F	REGISTER C
64	(40)	4	TCQREGD	F	REGISTER D
68	(40)	4	TCQREGE	F	REGISTER E
72	(44)	4	TCQREGE	F	REGISTER F
76	(4C)	4	TCQREGI	F	REGISTER 0
80	(50)	4	TCQREG1	F	REGISTER 1
84	(54)	4	TCQREG2	F	REGISTER 2
88	(58)	4	TCQREG3	F	REGISTER 3
92	(5C)	4	TCQREG5	F	REGISTER 4
96	(60)	4	TCQREG5	F	REGISTER 5
100	(64)	4	TCQREG6	F	REGISTER 6
100	(68)	4	TCQREG7	F	REGISTER 7
104	(6C)	4	TCQREG8	F	REGISTER 8
112	(70)	- 8	TOOREOU	2F	SYSTEM USE
120	(78)	32	TCQFPRGS	21 8F	FLOATING POINT REGISTERS
152	(98)	1	TCOSVTIK	C	ATTACH SAVE AREA FOR TIK
152	(99)	.7	1000111	CL7	SYSTEM USE
160	(A0)	2	TCQRSPSW	D	RESTART PSW AFTER FORCED WAIT
168	(A8)	12	TCQRSRGS	3F	REGS 15,0,1 IF TASK IN FORCED WAIT
180	(B4)	8	TCQPCKAD	2F	SAVE AREA FOR STXIT PC INFO
188	(BC)	8	TCQABND	2F	SAVE AREA FOR STXIT ABEND INFO
196	(C4)	8	TCQOCMAD	2F	SAVE AREA FOR STXIT OC INFO
204	(04)	1	TCQUUIAD	X	FLAGS FOR ROLL-IN INFO
204	(00)	1	10QF LMG	x'01'	DASD FILE PROTECT INHIBIT FLAG TO BE RESTORED AT ROLL-IN
				X'02'	STXIT INFO TO BE RESTORED AT ROLL-I
205	(CD)	1	TCQFLAGA	x	FLAGS FOR SVC CONTROL
	()			x'01'	NEXT SVC2 MIGHT COME FROM LTA
				X'02'	SUBSYSTEM IS EXEC IN IP
				END OF	TCQSAVE
206	(CE)	1	TCQDISP	х,	DISPATCHING STATUS OF TASK
200	(02)	-	1040101	X'01'	TASK GETS A DISPATCHING CYCLE AND
					NEEDS TO BE RESTARTED
				X'02'	TASK IS IN FORCED WAIT
				X'04'	TASK IS SET BOUND BY DISPATCHER EXIT
				X'04	REQUEST CANCEL OF TASK
207	(CF)	1	TCQCOND	X	NON-ROLL-OUT CONDITIONS FOR TASK
207	(01)	-	-0400110	x'01'	TEMPORARY NON-ROLL-OUT DUE
					TO ABEND PROCESSING
					10 HELLE INCODULING

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	OFFSI	ET	LENGTH	NAME	TYPE	DESCRIPTION
7					X'02'	TEMPORARY NON-ROLL-OUT BECAUSE OF LOCKED RESOURCES
	,				X'04'	TEMPORARY NON-ROLL-OUT BECAUSE OF
					X'08'	XECB SERVICES TEMPORARY NON-ROLL-OUT BECAUSE OF
					X'10'	
					X'20' X'80'	TASK IS USER REQUEST BOUND
	208	(D0)	4		X'FF' CL4	TASK IS NOT BE ROLLED OUT CURRENTLY NOT USED
	212	(D4)	20	TCQENTRY	CL20	ENTRY SEQUENCE AFTER ATTACH
	232	(E8)			ORG *-	1 ORG TO LAST BYTE OF ENTRY SEQUENCE
1	231	(E7)	1	TCQTIK	С	MY SAVE AREA FOR KEY OF TASK ATTACHED
Ę.	32	(E8)	4	TCQENECB	F	INITIAL WAIT ECB
	236	(EC)	12	TCQPATCH	3F	TCQ PATCH SPACE

#### COMMUNICATION VECTOR TABLE

### DSECT NAME: DTSVECTB

THE ICCF VECTOR TABLE SERVES AS COMMUNICATION AREA BETWEEN ICCF AND THE SUPERVISOR. THE MACRO ALLOWS TO GENERATE THE VECTOR TABLE OR OPTIONALLY THE DSECT FOR THE VECTOR TABLE.

THE VECTOR TABLE CONTAINS .

- ENTRY POINT ADDRESSES INTO ICCF BUILT AT ICCF INITIALIZATION TIME
- INTERRUPT INFORMATION BUILT BY THE SUPERVISOR INTERRUPT HANDLERS

OFFS	ET	LENGTH	NAME	TYPE	DESCRIPTION
0	(0)	0	DTSVECB	OF	BEGIN OF VECTOR TABLE
0	(0)	4	DTSOCAP	F	ICCF OC ROUTINE
4	(4)	4	DTSSVCAP	F	ICCF SVC APPENDAGE ROUTINE
8	(8)	4	DTSMCAP	F	ICCF MC APPENDAGE ROUTINE
12	(C)	4	DTSMCSA	F	ADDR OF ICCF MCSA
16	(10)	4	DTSCUSA	F	ADDR OF CURRENT SA
20	(14)	4	DTSSVCPB	F	SECOND LEVEL SVC INTERCEPT
24	(18)	4	DTSSVCPE	F	ADDR RANGE FOR PROGRAM CHECK
28	(1C)	2	DTSSVCC	Н	SVC INTERRUPT CODE
30	(1E)	.2	DTSMCC	Н	MC INTERRUPT CODE
32	(20)	2	DTSHTID	Н	TID OF HIGH PRIORITY TASK
34	(22)	2	DTSITPIK	Н	ICCF-PIK AT INIT. OR TERM. TIME
36	(24)	4	DTSECB	F	SUPVR-MUST-COMPLETE ECB
40	(28)	2	DTSNPART	н	NO. OF INTERACTIVE PARTITION
42	(2A)	0	DTSFLAGS	OCL2	ICCF-FLAGS
42	(2A)	1	DTSFLG1	С	CURRENTLY UNUSED
43	(2B)	1	DTSFLG2	С	MORE FLAGS
				X'80'	ICCF SUPERVISOR ROUTINE CANCELED
				X'40'	SVC IS TO BE REPEATED BY SUPERVISOR;
					THE ORIGINAL SVC CODE IS IN DTSSVCC $\sim$
44	(2C)	1	DTSFLGJ	С	JCL FLAGS
				X'01'	DUMP OPTION ON/OFF
				X'02'	LOG OPTION ON/OFF
				X'04'	FAST-CCW-XLATION OPTION ON/OFF
45	(2D)	0	DTSDUM	OCL8	DUMMY ASSIGNMENTS
45	(2D)	2	DTSLST	CL2	SYSLST/SYSNNN ASSIGNMENT $\psi_{ij} = \hat{f}_{ij}$
47	(2F)	2	DTSIPT	CL2	SYSIPT/SYSNNN ASSIGNMENT
49	(31)	2	DTSPCH	CL2	SYSPCH/SYSNNN ASSIGNMENT
51	(33)	1	DTSPCHIN	С	SYSNNN ASSIGNMENT
52	(34)	1	DTSLOG	С	SYSNNN ASSIGNMENT
					27 N

 $\underline{How \ to \ locate:}$  Displ. X'11C' (IJBETSS) of the SYSCOM contains the addr. of the ICCF Vector Table.

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	OFFS	ET	LENGTH	NAME	TYPE	DESCRIPTION
C	54 56	(35) (36) (38)	1 2 2	DTSPKEY DTSVCUCN DTSCNTHA	С Н Н	PSW KEY SAVED BY MC O RECOVERY COUNT FIELD COUNT OF CURRENT ICCF SLI LEVELS
~	58	(3A)	2	DTSCNTHB	н	BIT B'000011111111111' ON SHOWS WHICH PART. HAS CURRENTLY ICCF SLI IN USE. HIGH BIT TO LOW BIT IS PART. FB FA F9 F8 F7 F6 F5 F4 F3 F2 F1 BC
(	60 62	(3C) (3E)	2 2	DTSCNTHC	Н Н	NOT USED YET COUNT FIELD UNUSED
	64 68	(40) (44)	4 8	DTSCNTFA	F CL8	NOT USED YET FULLWORD RESERVED

The following addresses are used by dTscTrLh to exchange Ab and PC exit routine addresses in case of task swapping

..... TEMPORARILY .....

76	(4C)	4	DTSPCBAD	F	PCB TABLE ADDRESS	
80	(50)	2	DTSTIBAD	Н	TIB DISPLACEMENT	
82	(52)	2	DTSTIBTC	н	OFFSET OF TIB TCB ADDR	
84	(54)	2	DTSTCBPC	Н	OFFSET OF PC EXIT ROUTINE A	
86	(56)	2	DTSTCBAB	Н	OFFSET OF AB EXIT ROUTINE A	
88	(58)	2	DTSTIDST	Н	OFFSET OF PCB TID STRING	

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VSE/ICCF SERVICE AIDS

## CROSS-REFERENCE COMMANDS - MODULE(S)

The following table shows the sequence in which the VSE/ICCF command processors DTSTX00 to DTSTX13 are executed in order to handle given command.

	System Co	mmands	/LISTC	00-04(-12,if compr)
	\$	see /RUN	/LISTP	00-04-03
	/ASYNch	00-03	/LISTX	00-04(-12,if compr)
	/ATten	00-03	/LOCATE	00-03(SP) 00-04(LS)
ć	'CANcel	00-03(EX) 00-04(LS)	/LOCP	see /LOCATE
-	1	00-08(IN) <sup>1</sup>	/LOGOFF	00-06
-4809	/COMpres	00-03(EX) 00-04(LS)	/LOGON	00-02
	/CONNect	00-07	/LP	see /LISTP
	/Continu	00-03(EX) 00-04(LS)	/MAil	00-04
	/COUNT	00-05	/MSG	00-04
	/CP	see /CTLP	/PASswrd	00-07
	/CTL	see /SET	/PFnn	00
*	/CTLP	00-03-04-03	/PROmpt	00
	/DELete	00-08	/PROTect	00-05
	/DISPC	00-04(-12,if compr) <sup>2</sup>	/PURge	00-05
	/Display	00-04(-12,if compr)	/RENAMe	00-05
a	/DQ	00-03-04-03	/RENUM	see /RESeq
	/ECHO	00-07	/REPlace	00-08-05
	/EDit	00-02-04	/RESeq	00-05
	/END	00-08	/RETRIEV	00-07
	/ENDRun	00-08-03	/RETURN	00
(	'EP	see /ERASEP	/ROUTEP	00-03
-	ERASEP	00-03	/RP	see /ROUTEP
-	/EXec	00-08-03	/RUN	00-03
	/GRoup	00-05	/SAve	00-08-05
	/HARdcpy	00-07	/SENd	00-07
	/HELP	00-04	/SET	00-09
/	/INPut	00	/SETIme	00-07
(	INSert	00-08-04(-12,if compr)	/SHIFT	00-03(SP) 00-04(LS)
	/LIBC	00-04	/SHow	see /STatus
	/LIBrary	00-04	/SKip	00-03(SP) <sup>3</sup> 00/04(LS)
	/List	00-04(-12,if compr)		

Different sequences are possible for different modes.

<sup>2</sup> DTSTX12 is used, if the member to be displayed is compressed.

/SP	see /STATUSP
/SQueeze	00-12
/STatus	00-07
/STATUSP	00-03
/SUMry	00-04
/SWitch	00-07
/SYNch	00-03
/TABset	00-09
/Time	00-07
/USers	00-07

### Editor Commands

Contoxt

E/S Editor

	Context	F/S Editor
Add	00-02-04	13-00-02
ALIgn	00-02-04	13-00-02
ALter	00-11-04	13-00-11
BAckward	see	UP
BLank	00-02-04	13-00-02
Bottom	00-02-04	13-00-02
BRIEF	see	VERIFY
CANce1		13
CAse	00-02	13-00-02
CENter	00-02-04	13-00-02
Change	00-11-04	13-00-11
CTL	see	SET
CURsor		13
DELete	00-11-04	13-00-11
DELIM	00-02-04	13-00-02
DOWN	see	NEXT
DUP	00-11-04	13-00-11
ECHO	00-02	13-00-02
END	see	QUIT
ENTer		13
FILe	see	SAVE
Find	00-02-04	13-00-02
FLag	00-02-04	13-00-02
FORMat		13
FOrward	see	NEXT
GETfile	00-11-04	13-00-11
HARDCPY	00-07	13-00-07
IMage	00-02	13-00-02
INDex	00-02-04	13-00-02
INPut	00-11-04	13
Insert	00-11-04	13-00-11
JUStify	00-02-04	13-00-02

LAdd 13-00-11 LEft 13 LIBrary 00-02-04 13-00-02-04 LINemode 00-02 13-00-02 LN see LOCNot Locate 00-11-04 13-00-11 LOCNot 00-11-04 13-00-11 LOCUp 00-11-04 13-00-11 LUp see LOCup 13-00-04 MSG 00-04 00-02-04 13-00-02 Next Overlay 00-02-04 13-00-02 OVERLAYX 00-02-04 13-00-02 OX see OVERLAYX PF see PRINTFwd PFnn 13 POint 00-02-04 13-00-02 Print 00-02-04 13-00-02-04 PRINTFwd 00-02-04 13-00-02-04 PROmpt 00-02-04 13-00-02 RIght 13 Quit 00-02 13-00-02-04 RENum 00-02-05 13-00-02-05 REPEAT 00-02-04 13-00-02 00-02-05 13-00-02-05 REP1ace 00-02-04 13-00-02 REStore Rewrite 00-02-04 13-00-02 RPT see REPEAT SAVE 00-02-05 13-00-02-05 SCReen 13 00-11-04 13-00-11 Search SET 00-02-09 13-00-02-09 SHIft 00-02-04 13-00-02 SHow see STATUS SPlit 00-11-04 13-00-11 STACk 00-02-11-04 13-00-02-11 STATUS 00-02-07 13-00-02-07 TABSET 00-02-09 13-00-02-09 Тор 00-02-04 13-00-02 TYPE see Print 13-00-02 Uρ 00-02-04 Verify 00-02-13 13 VIEW 13 13-00-02 Zone 00-02-04 'nnnnn' 00-11 13-00-11

<sup>3</sup> SP: the file displayed is a VSE/POWER spool file.

### F/S Editor Line Commands

(	·. /	13
(		13-00-11
	>	13-00-02
	<	13-00-02
	A	13-00-11
	С	13-00-02-11
1	. D	13-00-11
É	J I	13-00-11
	К	13-00-02-11
	М	13-00-02-11
	TA,TC,TL,TR	13-00-02
	TS	13-00-11

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#### DTSFDUMP UTILITY PROGRAM

The DTSFDUMP program is used to interpret and format VSE/ICCF tables and to display the formatted output on SYSLST. It can run either in a VSE or a VSE/ICCF interactive partition.

When run in a VSE partition DTSFDUMP can set different modes of operatio. by UPSI bit settings. If UPSI bit 0 is not set (//UPSI 0), the program requires a tape created by the program 'DOSVSDUMP', which must be assigned to SYS007. A scan is made on the tape for the ICCF identifier and, if found, tables are formatted and printed. A blank line is inserted in the damp at the start of each control block that was found to make control tables in the dump easier to locate. The actual and relative addresses of all formatted tables are printed to make them easier to find in the assembler listings of VSE/ICCF. When the ICCF identifier is not found of the tape (an EOF is found) an error message is printed and the job i terminated.

If UPSI bit 0 is set (//UPSI 1), a test is made to see if VSE/ICCF is running in another partition and, if so, a dump is made from the running ICCF partition to SYSLST in the same format as if from tape. This dump does not seize the system, which means data in the tables and the final dump may differ. If VSE/ICCF is not running, an error message is printed and the job is terminated. To get a seized dump, issue the DUMP ALL,cuu command where cuu is a tape drive with an unlabeled scratch tape mounted. This seized dump may due the be processed via DTSFDUMP.

If UPSI bit 1 (//UPSI x1) is set, only tables are printed but not the final dump.

If UPSI bit 2 (//UPSI xxl) is set, a number of 'forward space files' on the tape is desired. The number of files is specified by using UPSI bit 5 to 7 (xxxxxnnn). This means if bits 5 to 7 are all zero, one forward space file is performed; if 5 to 7 are set, eight forward space files are performed, making it possible to skip up to eight tape marks. This function can be used if more than one dump is on the input tape, or for processing a stand alone dump tape, where the dump data are in the third file (in this case you have to specify //UPSI xxlxx01).

If UPSI bit 3 (//UPSI xxx1) is set, it is possible to scan, for a specifier character string, the VSE/ICCF partition or the dump on tape dependir on UPSI bit 0. You are prompted by a message to enter the scan start an stop address. If no address is entered the scan is made for the whole VSE/ICCF partition. After the next message you can enter the scan string in hexadecimal (two characters per byte) or in character format (one character per byte). For character format the scan string must be enclosed in quotes. An included quote in the string must be entered twice. The maximum length of the scan argument is 16 bytes. If the scan argument is entered in hexadecimal format, each halfbyte which is entered as 'X' (47XXBX) may have any bit configuration in the dump (see description c' the following pages). Each match found is printed on SYSLST.

When DTSFDUMP is run in a VSE/ICCF interactive partition you are able to display various ICCF tables and to display or alter areas in the supervisor or in ICCF. You are also able to scan within the ICCF partition.

The following describes typical DTSFDUMP output from operations in interactive partitions:

CSA	01	RQE	01	PICB	05	TCQ	11	MNECB	0
HIECB	01	DIFO	02	EXPICB	01	LABINFO	00	AUXP1	00
AUXP2	01	AUXP3	02	AUXP4	02	AUXP5	02	AUXP6	06
AUXP7	01	MFH	01	MFCT	01	EXTENTTB	01	BUFTABLE	10
FILEBUFF	10	BUFF	03	TCCSA	01	TAS	01	FSEP	00
FSCR	00	FSED	00	XPCCB	01				



#### ENTER TABLE NAME AND NUMBER OF ENTRY OR EOJ FOR EXIT OR DD HEXADDR OR SA HEXADDR OR SCAN OR SCAF

By typing in the table name and a number of up to the value shown after e name, you are able to display the current value in this table forted on your terminal. For example, if you want to display the sixth entry you have to enter:

TCQ 06

If no number is entered after the table name, the first entry is taken. Each table name may be abbreviated to at least one character, but the table will be scanned from left to right and top to bottom. So if, for "xample, you enter only 'T', the TCQ entry will be displayed; but if you 'er 'TCC', the TCCSA will be displayed.

fllowing is the meaning of the tables:

	CSA RQE	Main Task Common System Area including DTSIGEN Request Queue Entry									
	PICB	Interactive Partition Control Block									
	TCQ	Task Control Queue Block									
	MNECB	Main Task ECB									
	HIECB	Timer Interrupt ECB									
	DIFO	Dynamic Disk Information Block									
	BUFF	Buffer from the file rcutine									
	EXPICB	Interactive Partition Information Block Extension									
	LABINFO	Label Information Block									
	AUXP1	Save Area in Interactive Partition Part One									
	AUXP2	Save Area in Interactive Partition Part Two									
	AUXP3	Save Area in Interactive Partition Part Three									
	AUXP4	Save Area in Interactive Partition Part Four									
ŝ	AUXP5	Save Area in Interactive Partition Part Five									
	AUXP6	Save Area in Interactive Partition Part Six									
	AUXP7	Save Area in Interactive Partition Part Seven									
	MFH	Main File Handler Pointer									
	MFCT	DTSFILE Control Table									
	EXTENTTB	DTSFILE Extent Table and Set Vector Value Table									
	BUFTABLE	Buffer Table Entry									
1	LEBUFF	CCW's and ECB's for Buffer Table Entry									
	SA	Terminal Control Main Area									
عد		Terminal Associated Storage									
-	FSEP	Full Screen Editor Session Table									
	FSCR	Full Screen Editor Screen Table									
	FSED	Full Screen Editor Member Table									
	XPCCB	Control Block for Message Service									

Also the following codes are possible:

#### \_\_\_\_ nnnnnn

128 bytes starting at hex address nnnnnn will be displayed in hex and character format.

SA nnnnn

Up to 16 bytes starting at hex address nnnnn might be altered. The area displayed first, if no alteration is wanted. Pressing the ENTER key h no data in the input line will leave the storage alter mode.

Entering 'DD' or 'SA' with no hex address will result in the following three lines:

ICCF ADDRESS FROM 21A920 to 3CB580

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OR SUPERVISOR ADDRESS 0 TO 032780 ALLOWED NO OR INVALID HEXADDR TRY AGAIN

The displayed addresses are the space where you might use the 'DD' or 'SA' function.

SCAN or SCANF

The ICCF partition will be scanned in a user defined area for a user defined scan argument which might be a character or a hex string. The maximum length of the scan argument is 16 bytes. Command 'SCAN' will scan whole area and display all hits in hex and character format. Command 'SCANF' will display each hit directly and the user can then decide ifhe wants to continue scanning or not. After entering 'SCAN' or 'SCANF' the following message will be printed:

SCAN ADDRESS FROM 21A920 TO 3CB580 ENTER SCAN START AND STOP ADDRESS OR EOJ FOR EXIT

Now the scan limits must be entered. The following forms are possible:

nnnnn mmmmmm	scan	from	address nnnnnn to address mmmmmm
nnnnn	scan	from	address nnnnnn to end address
-mmmmmm	scan	from	start to address mmmmmmm
NO INPUT	scan	from	start to end address

nnnnnn and mmmmmm must be within the scan limits which are indicated in the message above. mmmmmm must be higher then nnnnnn.

After the following message is printed, you can enter your scan argument.

ENTER SCAN STRING OR SCAN STRING WITH FO FOR FIRST OCCURRENCE ONLY

The following forms are possible as a scan argument:

'ABCDEFG'	Character string which must be enclosed in quotes.
'RRT''RRT'	Enclosed quotes must be entered twice without blank.
47f0B004	Hex string which must be an even number of hex characters.
47XXBXX4	Hex string with unknown halfbytes in the X positions.
	Any data in the X positions will be treated as equal.
50E0BXX8 FO	The FO sets you in SCANF mode if the scan function
	was called with 'SCAN'.

The scan function is the same if the DTSFDUMP is running in a batch partition. The scan function will then be called by UPSI bit 3 (xxx1).

EOJ

Exit the program. EOJ at any place for any requested input will exit t program.

#### VSE/ICCF Handbook Order No. LY33-9122-0

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This sheet is for comments and suggestions about this manual. We would appreciate your views, favorable or unfavorable, in order to aid us in improving this publication. This form will be sent directly to the author's department. Please include your name and address if you wish a reply. Contact your IBM branch office for answers to technical questions about the system or when requesting additional publications. Thank you.

Your comments\* and suggestions:

\*We would especially appreciate your comments on any of the following topics:

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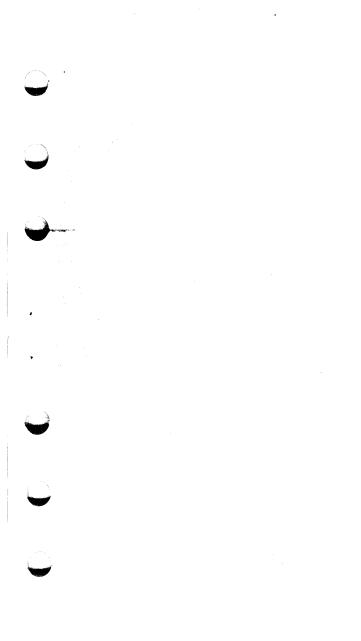
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