

VVV	VVV	MMM	MMM	SSSSSSSSSSSS	LLL	IIIIIIIIII	BBBBBBBBBBBB
VVV	VVV	MMM	MMM	SSSSSSSSSSSS	LLL	IIIIIIIIII	BBBBBBBBBBBB
VVV	VVV	MMM	MMM	SSSSSSSSSSSS	LLL	IIIIIIIIII	BBBBBBBBBBBB
VVV	VVV	MMMMMM	MMMMMM	SSS	LLL	III	BBB
VVV	VVV	MMMMMM	MMMMMM	SSS	LLL	III	BBB
VVV	VVV	MMMMMM	MMMMMM	SSS	LLL	III	BBB
VVV	VVV	MMM	MMM	SSS	LLL	III	BBB
VVV	VVV	MMM	MMM	SSS	LLL	III	BBB
VVV	VVV	MMM	MMM	SSS	LLL	III	BBB
VVV	VVV	MMM	MMM	SSS	LLL	III	BBB
VVV	VVV	MMM	MMM	SSSSSSSSSS	LLL	III	BBB
VVV	VVV	MMM	MMM	SSSSSSSSSS	LLL	III	BBB
VVV	VVV	MMM	MMM	SSSSSSSSSS	LLL	III	BBB
VVV	VVV	MMM	MMM	SSS	LLL	III	BBB
VVV	VVV	MMM	MMM	SSS	LLL	III	BBB
VVV	VVV	MMM	MMM	SSS	LLL	III	BBB
VVV	VVV	MMM	MMM	SSS	LLL	III	BBB
VVV	VVV	MMM	MMM	SSS	LLL	III	BBB
VVV	VVV	MMM	MMM	SSS	LLL	III	BBB
VVV	VVV	MMM	MMM	SSS	LLL	III	BBB
VVV	VVV	MMM	MMM	SSS	LLL	III	BBB
VVV	VVV	MMM	MMM	SSS	LLL	III	BBB
VVV	VVV	MMM	MMM	SSS	LLL	III	BBB
VVV	VVV	MMM	MMM	SSS	LLL	III	BBB
VVV	VVV	MMM	MMM	SSSSSSSSSSSS	LLLLLLLLLLLLLLLL	IIIIIIIIII	BBBBBBBBBBBB
VVV	VVV	MMM	MMM	SSSSSSSSSSSS	LLLLLLLLLLLLLLLL	IIIIIIIIII	BBBBBBBBBBBB
VVV	VVV	MMM	MMM	SSSSSSSSSSSS	LLLLLLLLLLLLLLLL	IIIIIIIIII	BBBBBBBBBBBB



V03-052 RLRMVER Robert L. Rappaport 26-Apr-1984
Add MSG\$ RC25MVER, MSG\$ RDRXMVER, MSG\$ TUB1MVER, and
MSG\$ MAYAMVER symbols added to \$MSGDEF.

V03-051 TMH0051 Tim Halvorsen 12-Apr-1984
Remove \$M symbols from PRVDEF (V03-049) for bits in
the second longword, since SDL cannot generate masks
for bit offsets greater than 32.

V03-050 MHB0139 Mark Bramhall 12-Apr-1984
Add CLISPEC flag to \$PRCDEF.

V03-049 MCN0165 Maria del C. Nasr 09-Apr-1984
Add mask values to \$PRVDEF.

V03-048 RSH0128 R. Scott Hanna 28-Mar-1984
\$NSARECDEF Add the packet type NSASK_PKTTP_STATUS and
remove the record type ACL.

V03-047 RSH0109 R. Scott Hanna 28-Feb-1984
\$NSARECDEF Change time field in the security auditing
record header from a longword to a quadword.

V03-046 HH0004 Hai Huang 28-Feb-1984
Add MNT\$V_CLUSTER for cluster-wide mount support.

V03-045 ROW0318 Ralph O. Weber 27-FEB-1984
Add OPCOM message codes for shadow set mount verification
messages; MSG\$ SHAMEMFAL, member failed out of shadow set, and
MSG\$ SHARDUCED, shadow set reduced.

V03-044 MMD0241 Meg Dumont, 24-Feb-1984 11:15
Add MTADEF codes to support the mag tape accessibility routine.

V03-043 RSH0097 R. Scott Hanna 02-Feb-1984
Replace \$NSARECDEF.

V03-042 KPL0002 Peter Lieberwirth 2-Feb-1984
Add \$PR8NNDEF for Nautilus.

V03-041 ACG0386 Andrew C. Goldstein, 10-Jan-1984 16:29
Add PRC\$V_PASSWORD to \$CREPRC flags

V03-040 RLRPR8SS2 Robert L. Rappaport 9-Dec-1983
Additional minor corrections to \$PR8SSDEF.

V03-039 DAS0001 David Solomon 29-Nov-1983
Add MNT\$_JRNLRECORD_SIZE for specifying max journal recordsize
on MOUNT.

V03-038 RLRPR8SS1 Robert L. Rappaport 28-Nov-1983
Modify \$PR8SSDEF according to new Scorpio spec.

V03-037 RLRPR8SS Robert L. Rappaport 11-Nov-1983
Add \$PR8SSDEF for Scorpio specific registers.

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V03-036 KPL0001 Peter Lieberwirth 8-Nov-1983
Add PRS_SID_TYP8SS for Scorpio, PRS_SID_TYP8NN for Nautilus.

V03-035 TMK0001 Todd M. Katz 27-Oct-1983
Add the process quota list code PQLS_JTQUOTA.

V03-034 KDM0075 Kathleen D. Morse 23-Aug-1983
Update PRS_TYPMAX to 8.

V03-033 CWH1011 CW Hobbs 18-Aug-1983
Add MSGS_CLUMBX and MSGS_TM78MVER messages.

V03-032 KDM0067 Kathleen D. Morse 4-Aug-1983
Add processor-specific IPR macros for Micro-VAX, \$PRUV1DEF
and \$PRUV2DEF.

V03-031 SBL0031 Steve Lionel 29-Jul-1983
Add comment to \$PRVDEF about updating [RTL.SRC]LIBLEXICA.B32.

V03-030 WMC0030 Wayne Cardoza 28-Jul-1983
PRCDEF item codes for logical name attributes.

V03-029 MMD0191 Meg Dumont, 28-Jul-1983 9:49
Changed bit in VCBDEF from AUTO to NOAUTO to make mag tape
AVL/AVR consistent between DCL and MOUNT system service

V03-028 KDM0050 Kathleen D. Morse 15-Jul-1983
Add cpu-dependent IPR definitions: \$PR730DEF, \$PR750DEF,
\$PR780DEF, and \$PR790DEF. Remove ACCS, ACCR, PME, TODR,
ICR, and NICR from \$PRDEF and add to cpu-dependent IPRs.

V03-027 MLJ0114 Martin L. Jack 22-Jun-1983
Add MSGS_GETQUI.

V03-026 RSH0035 R. Scott Hanna 16-Jun-1983
Provide permanent fix for \$NSARECDEF symbols.

V03-025 ADE9001 A. Eldridge 27-May-1983
Temporary modifications to \$NSARECDEF to allow build
to proceed.

V03-025 RSH0023 R. Scott Hanna 24-May-1983
Add \$NSARECDEF (Security Auditing record definitions)

V03-024 RSH0018 R. Scott Hanna 21-May-1983
Add SECURITY privilege to \$PRVDEF

V03-023 KDM0046 Kathleen D. Morse 20-May-1983
Add Micro-VAX cpu definitions to \$PRDEF.

V03-022 PRB0172 Paul Beck 26-Apr-1983
Add TMPJNL and PRMJNL privileges

V03-021 WMC0017 Wayne Cardoza 10-Apr-1983
Add IMGDMF flag to PRCDEF

V03-020 MMD0111 Meg Dumont, 25-Mar-1983 9:51
Added MNTDEF bits for new mount qualifiers

V03-019 WMC0016 Wayne Cardoza 08-Mar-1983
Add item codes to PRCDEF

V03-018 WMC0015 Wayne Cardoza 06-Mar-1983
Add PRCSV_INTER and PRCSV_DETACH

V03-017 LMP0083 L. Mark Pilant, 28-Feb-1983 9:54
Add a blurb that indicates what modules must be changed when
privileges are added.

V03-16 LMP0082 L. Mark Pilant, 28-Feb-1983 8:41
Add difinitions for the following privileges: UPGRADE,
DOWNGRADE, GRPPRV, and READALL.

V03-015 JLV0233 Jake VanNoy 24-FEB-1983
Add definition for SHARE privilege.

V03-014 WMC0014 Wayne Cardoza 04-Jan-1983
Add 790 scratchpad registers to PRDEF.

V03-013 RLRDENS Robert L. Rappaport 21-Dec-1982
Add density support bit fields to MTDEF. These bits
will tell what denrities are supported on a drive.

V03-012 TCM0004 Trudy C. Matthews 13-Dec-1982
Add PR\$_STXCS and PR\$_STXDB definitions.

V03-011 ACG0303 Andrew C. Goldstein, 9-Dec-1982 16:06
Add FILL attribute to extraneous field names

V03-010 RLRSPEEDA Robert L. Rappaport 09-Nov-1982
Corrected Speed definition in MTDEF.

V03-009 TCM0003 Trudy C. Matthews 02-Nov-1982
Changed PR\$_SID_TYP7VV to PR\$_SID_TYP790.

V03-008 RLRSPEED Robert L. Rappaport 21-Oct-1982
Add Speed field and speed values to MTDEF.

V03-007 MLJ0097 Martin L. Jack, 9-Sep-1982 16:38
Add MSG\$_SNDJBC.

V03-006 RLRSEREX Robert L. Rappaport 26-Aug-1982
Remove MT\$M_CLSEREXCP.

V03-005 STJ0320 Steven T. Jeffreys 25-Aug-1982
Add support for recovery unit journalling in \$MOUNT.

V03-004 RLR0001 Robert L. Rappaport 4-Aug-1982
Add serious exception bits to MTDEF

V03-003 TCM0002 Trudy C. Matthews 28-Jul-1982
Replace 11/790-specific Internal Processor Register definitions.


```
module SMNTDEF;
```

```
/*+
/*
/* FLAG BITS FOR THE $MOUNT SYSTEM SERVICE.
/*
/*-
```

```
aggregate MNTDEF union prefix MNTS;
```

```
  MNTDEF BITS structure fill;
```

```
    FOREIGN bitfield mask; /* FOREIGN OPTION SELECTED
    GROUP bitfield mask; /* GROUP OPTION SELECTED
    NOASSIST bitfield mask; /* NOASSIST OPTION SELECTED
    NODISKQ bitfield mask; /* NODISKQ OPTION SELECTED
    NOHDR3 bitfield mask; /* NOHDR3 OPTION SELECTED
    NOLABEL bitfield mask; /* NOLABEL OPTION SELECTED
    NOWRITE bitfield mask; /* NOWRITE OPTION SELECTED
    OVR_ACCESS bitfield mask; /* OVERRIDE ACCESSIBILITY OPTION SELECTED
    OVR_EXP bitfield mask; /* OVERRIDE EXPIRATION OPTION SELECTED
    OVR_IDENT bitfield mask; /* OVERRIDE VOLUME LABEL
    OVR_SETID bitfield mask; /* OVERRIDE VOLUME SET IDENT OPTION SELECTED
    READCHECK bitfield mask; /* READCHECK OPTION SELECTED
    SHARE bitfield mask; /* SHARE OPTION SELECTED
    MESSAGE bitfield mask; /* ALLOW $MOUNT TO PRINT MESSAGES
    SYSTEM bitfield mask; /* SYSTEM OPTION SELECTED
    WRITECHECK bitfield mask; /* WRITECHECK OPTION SELECTED
    WRITETHRU bitfield mask; /* WRITETHRU OPTION SELECTED
    NOCACHE bitfield mask; /* TURN OFF ALL CACHING
    OVR_LOCK bitfield mask; /* OVERRIDE AUTOMATIC WRITE-LOCK
    NOMNTVER bitfield mask; /* DISABLE MOUNT VERIFICATION
    NOUNLOAD bitfield mask; /* DO NOT UNLOAD VOLUME AT DISMOUNT
    NOJRNAL bitfield mask; /* DO NOT ACTIVATE RECOVERY UNIT JOURNAL FILE
    NEWJRNAL bitfield mask; /* CREATE A NEW RECOVERY UNIT JOURNAL FILE
    NOAUTO bitfield mask; /* DO NOT SET THE MTAACP INTO AVR AND AVL MODE
    INIT_ALL bitfield mask; /* INITIALIZE ALL VOLUMES IN SET BEFORE WRITING
    INIT_CONT bitfield mask; /* INITIALIZE CONTINUATION VOLUMES BEFORE WRITING
    OVR_VOL0 bitfield mask; /* OVERRIDE VOL1 VOLUME IDENTIFIER FIELD
    INTERCHG bitfield mask; /* VOL FOR INTERCHG NO VMS SPECIFIC INFO WRITTEN TO TAPE
    CLUSTER bitfield mask; /* CLUSTER-WIDE MOUNT OPTION SELECTED
    NOREBUILD bitfield mask; /* DO NOT REBUILD VOLUME
```

```
end MNTDEF_BITS;
```

```
/*
/* Item codes for mount parameters.
/*
```

```
constant(
```

```
  DEVNAM /* DEVICE NAME
  , VOLNAM /* VOLUME NAME
  , LOGNAM /* LOGICAL NAME
  , FLAGS /* MOUNT FLAGS
  , ACCESSED /* ACCESSED VALUE
  , PROCESSOR /* PROCESSOR NAME
  , VOLSET /* VOLUME SET NAME
  , BLOCKSIZE /* BLOCKSIZE VALUE
  , DENSITY /* TAPE DENSITY VALUE
```

```
/* DEFINE CODES AS CONSTANTS
```

```
/* DEVICE NAME
/* VOLUME NAME
/* LOGICAL NAME
/* MOUNT FLAGS
/* ACCESSED VALUE
/* PROCESSOR NAME
/* VOLUME SET NAME
/* BLOCKSIZE VALUE
/* TAPE DENSITY VALUE
```



```

      . EXTENT          /* NUMBER OF EXTENT CACHE ENTRIES
      . FILEID         /* FILE ID CACHE SIZE
      . LIMIT          /* EXTENT CACHE LIMIT
      . OWNER          /* VOLUME OWNER UIC
      . VPROT         /* VOLUME PROTECTION
      . QUOTA          /* QUOTA CACHE SIZE
      . RECORDSIZ     /* RECORD SIZE VALUE
      . WINDOW        /* NUMBER OF WINDOWS
      . EXTENSION     /* DEFAULT FILE EXTENSION
      . VISUAL_ID     /* VISUAL IDENTIFICATION
      . COMMENT       /* USER COMMENT
      . JRNL_SIZE     /* INITIAL JOURNAL SIZE
      . JRNL_EXTEND   /* JOURNAL EXTENSION QUANTITY
      . JRNL_QUOTA    /* JOURNAL BYTE QUOTA (PER R.U.)
      . JRNL_REC_SIZE /* JOURNAL MAXIMUM RECORD SIZE
    ) equals 1 increment 1 prefix MNT tag $;
end MNTDEF;
end_module $MNTDEF;

```

```
module $MSGDEF;
```

```
/*+
```

```
/*
```

```
/* SYSTEM WIDE MAILBOX MESSAGE TYPES
```

```
/*
```

```
/*-
```

```
constant(
    TRMUNSOLIC
    , CRUNSOLIC
    , DELPROC
    , SNDSMB
    , DEVOFFLIN
    , TRMHANGUP
    , DEVONLIN
    , OPRQST
    , OPREPLY
    ) equals 1 increment 1 prefix MSG tag $;
```

```
constant(
    SMBINI
    , SMBDON
    , SNDACC
    , PURPROC
    , DELIMAG
    , PURIMAG
    , SYSFUNC
    , SNDJBC
    , GETQUI
    ) equals 8 increment 1 prefix MSG tag $;
```

```
constant(
    XM_DATAVL
    , XM_HUTDN
    , XM_ITN
    ) equals 11 increment 1 prefix MSG tag $;
```

```
constant(
    INIOPR
    , ABOOPR
    , SUSOPR
    , RESOPR
    , DELSMB
    , REQUE
    ) equals 16 increment 1 prefix MSG tag $;
```

```
constant(
    SMBRSP
    , ACCRSP
    ) equals 32 increment 1 prefix MSG tag $;
```

```
constant(
    SCANBAD
    , SCANRSP
    ) equals 40 increment 1 prefix MSG tag $;
```

```
/* DEFINE CODES AS CONSTANTS
```

```
/* UNSOLICITED TERMINAL DATA
/* UNSOLICITED CARD READLo DATA
/* DELETE PROCESS
/* SEND TO SYMBIONT MANAGER
/* DEVICE OFFLINE
/* TERMINAL HANG UP
/* DEVICE ONLINE
/* OPERATOR REQUEST *** OVERLAPPED CODE ***
/* OPERATOR REPLY *** OVERLAPPED CODE ***
```

```
/* DEFINE SYMBIONT RESPONSE MESSAGES
```

```
/* SYMBIONT HAS INITED
/* SYMBIONT FINISHED
/* SEND MESSAGE TO ACCOUNTING MANAGER
/* PURGE PROCESS *** OVERLAPPED CODE ***
/* DELETE IMAGE *** OVERLAPPED CODE ***
/* PURGE IMAGE *** OVERLAPPED CODE ***
/* SYSTEM FUNCTION *** OVERLAPPED CODE ***
/* Send message to job controller
/* Get queue information (from job controller)
```

```
/* DEFINE DMC MESSAGES
```

```
/* DMC UNSOLICITED DATA
/* DMC LINE DOWN
/* DMC ATTENTION MESSAGE
```

```
/* SYMBIONT COMMAND MESSAGES
```

```
/* INITIATE PRINTING A FILE
/* ABORT PRINTING A FILE
/* PAUSE PRINTING THE FILE
/* RESUME PRINTING THE FILE
/* SYMBIONT SHOULD DELETE ITSELF
/* REQUEUE A FILE FOR PRINTING
```

```
/*
```

```
/* SYMBIONT MANAGER RESPONSE
/* ACCOUNTING MANAGER RESPONSE
```

```
/* FILE ACP MESSAGES
```

```
/* SCAN FILE FOR BAD BLOCKS
/* RESPONSE FROM FILE SCANNER
```

```
/* NETWORK ATTENTION CODES
```

```

constant(
  ABORT /* PARTNER ABORTED LINK
  . CONFIRM /* CONNECT CONFIRM
  . CONNECT /* INBOUND CONNECT INITIATE
  . DISCON /* PARTNER DISCONNECTED - HANGUP
  . EXIT /* PARTNER EXITED PREMATURELY
  . INTMSG /* INTERRUPT MESSAGE - UNSOLICITED DATA
  . PATHLOST /* NFW - PATH LOST TO PARTNER
  . PROTOCOL /* PROTOCOL ERROR
  . REJECT /* CONNECT REJECT
  . THIRDPARTY /* THIRD PARTY DISCONNECT
  . TIMEOUT /* CONNECT TIMEOUT
  . NETSHUT /* Network shutting down
  . NODEACC /* Node has become accessible
  . NODEINACC /* Node has become inaccessible
  . EVTAVL /* Events are available to EVL
  . EVTRCVCHG /* Event receiver database change
  . INCDAT /* X25 INCOMING DATA
  . RESET /* X25 CIRCUIT RESET
  . LINUP /* X25 PVC LINE UP
  . LINDWN /* X25 PVC LINE DOWN
  . EVTXMTCHG /* Event transmitter database change
) equals 48 increment 1 prefix MSG tag $;

constant(
  DEVOFFLINX /* DEVICE OFFLINE
  . WRONGVOL /* WRONG VOLUME IN DEVICE
  . DEVWRTLCK /* DEVICE HAS BEEN WRITE LOCKED
  . TRMBRDCST /* TERMINAL BROADCAST
  . MVCOMPLETE /* MOUNT VERIFICATION COMPLETED
  . MVABORTED /* MOUNT VERIFICATION ABORTED
  . DISMOUNTED /* VOLUME DISMOUNTED
  . UDA50MVER /* UDA50 MICORCODE NOT UPTO REV
  . DUPUNITNO /* MSCP CONTROLLER - DUPLICATE UNIT !
  . CLUMBX /* CNXMGR to OPCOM messages
  . TM78MVER /* TM78 Microcode not up to rev level
  . SHAMEMFAL /* Member failed out of shadow set
  . SHARDUCED /* Shadow set reduced
  . RC25MVER /* RC25 MICORCODE NOT UPTO REV
  . RDRXMVER /* RDRX MICORCODE NOT UPTO REV
  . TU81MVER /* TU81 MICORCODE NOT UPTO REV
  . MAYAMVER /* MAYA MICORCODE NOT UPTO REV
) equals 80 increment 1 prefix MSG tag $;

end_module $MSGDEF;

```

```
module $MTADEF;
```

```
/*+
```

```
/* MAGTAPE ACCESSIBILITY ROUTINE CODES
```

```
/*-
```

```
aggregate MTADEF union prefix MTAS;
```

```
/* DEFINITIONS FOR ACCESS_SPEC
```

```
constant NOCHAR equals 0 prefix MTA tag $K; /* ACCESS CHAR IS NOVALID
```

```
constant CHARVALID equals 1 prefix MTA tag $K; /* ACCESS CHAR IS VALID
```

```
/* DEFINITIONS FOR TYPE
```

```
constant INVOL1 equals 0 prefix MTA tag $K; /* INPUT A VOL1 ACCESS CODE
```

```
constant INHDR1 equals 1 prefix MTA tag $K; /* INPUT A HDR1 ACCESS CODE
```

```
constant OUTVOL1 equals 2 prefix MTA tag $K; /* OUTPUT A VOL1 ACCESS CODE
```

```
constant OUTHDR1 equals 3 prefix MTA tag $K; /* OUTPUT A HDR1 ACCESS CODE
```

```
end MTADEF;
```

```
end_module $MTADEF;
```

STA

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```
module SMTDEF;
```

```
/*+
```

```
/* MAGTAPE STATUS BITS
```

```
/*-
```

```
aggregate MTDEF union prefix MTS;
```

```
  MTDEF BITS structure fill;
```

```
  SEREXCP bitfield mask;
```

```
  FILL_1 bitfield fill prefix MTDEF tag $$;
```

```
  ENSEREXCP bitfield mask;
```

```
  PARITY bitfield mask;
```

```
  FORMAT bitfield mask length 4;
```

```
  DENSITY bitfield mask length 5;
```

```
  FILL_2 bitfield fill prefix MTDEF tag $$;
```

```
  LOGSOFT bitfield mask;
```

```
  LOGSOFTOG bitfield mask;
```

```
  BOT bitfield mask;
```

```
  EOF bitfield mask;
```

```
  EOT bitfield mask;
```

```
  HWL bitfield mask;
```

```
  LOST bitfield mask;
```

```
  SUP_NRZI bitfield mask;
```

```
  SUP_PE bitfield mask;
```

```
  SUP_GCR bitfield mask;
```

```
  SPEED bitfield mask length 8;
```

```
end MTDEF_BITS;
```

```
/* SERIOUS EXCEPTION PRESENT
/* SPARE UNUSED BIT
/* ENABLE SERIOUS EXCEPTION MODE
/* PARITY SELECT (0=ODD, 1=EVEN)
/* RECORDING FORMAT
/* RECORDING DENSITY AND METHOD
/* SPARE UNUSED BIT
/* LOG SOFT (TU78) ERRORS (0=NO, 1=YES)
/* TOGGLE TO REVERSE LOGSOFT STATE BIT
/* AT BEGINNING OF TAPE
/* AT END OF FILE
/* AT END OF TAPE
/* TAPE IS HARDWARE WRITELOCKED
/* TAPE POSITION LOST
/* DRIVE SUPPORTS NRZI (800 BPI)
/* DRIVE SUPPORTS PE (1600 BPI)
/* DRIVE SUPPORTS GCR (6250 BPI)
/* TAPE SPEED
```

```
/*
```

```
/* RECORDING FORMAT DEFINITIONS
```

```
/*
```

```
  constant 'DEFAULT' equals 0 prefix MT tag $K;
```

```
  constant NORMAL11 equals 12 prefix MT tag $K;
```

```
  constant CORDMP11 equals 13 prefix MT tag $K;
```

```
  constant NORMAL15 equals 14 prefix MT tag $K;
```

```
/*
/* DEFAULT FORMAT
/* PDP-11 NORMAL
/* PDP-11 CORE DUMP
/* PDP-15 NORMAL
```

```
/*
```

```
/* RECORDING DENSITY AND METHOD DEFINITIONS
```

```
/*
```

```
/*          DEFAULT,0          /* DEFAULT DENSITY (SAME AS ABOVE)
```

```
  constant NRZI_800 equals 3 prefix MT tag $K; /* NRZI 800 BPI
```

```
  constant PE_1600 equals 4 prefix MT tag $K; /* PE 1600 BPI
```

```
  constant GCR_6250 equals 5 prefix MT tag $K; /* GCR 6250 BPI
```

```
/*
```

```
/* TAPE SPEED VALUE DEFINITIONS
```

```
/*
```

```
  constant SPEED_DEF equals 0 prefix MT tag $K; /* DEFAULT SPEED
```

```
  constant SPEED_25 equals 25 prefix MT tag $K; /* 25 IPS
```

```
  constant SPEED_75 equals 75 prefix MT tag $K; /* 75 IPS
```

```
end MTDEF;
```

STARDEFMP.SDL:1

end_module SMTDEF;

STA

mod
/*+
/*
/*-

con
con
con
con
con
con
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con
con
con
con
con
con
con

end

```
module $NSARECDEF;
```

```
/*+
/* Security Auditing record definitions
/*-
```

```
constant REC_MAXLENGTH equals 1024 tag C prefix NSAS; /* Maximum record size
constant REC_MAXLENGTH equals 1024 tag K prefix NSAS; /* Maximum record size
constant REC_MAXLENGTH equals 1024 tag S prefix NSAS; /* Maximum record size
```

```
/*+
/* Audit record type definitions
/*-
```

```
constant (RECTYP_FIL,          /* File access
RECTYP_SYSUAF,              /* System UAF
RECTYP_NETUAF,             /* Network UAF
RECTYP_LOGB,               /* Login breakin detection
RECTYP_LOGI,               /* Successful login
RECTYP_LOGF,               /* Login failure
RECTYP_LOGO,               /* Logout
RECTYP_VOL)                /* Volume operations
equals T increment 1 counter #TYPNUM prefix NSAS;
```

```
constant RECTYPNUM equals #TYPNUM prefix NSAS;
```

```
/*+
/* Audit record subtype and ID definitions
/*-
```

```
/* File access
```

```
constant (RECTYP_FIL_SUCC,    /* Successful file access
RECTYP_FIL_FAIL)            /* File access failure
equals T increment 1 counter #SUBTYPNUM prefix NSAS;
```

```
constant RECTYPNUM_FIL equals #SUBTYPNUM prefix NSAS;
```

```
constant RECID_FIL_SUCC equals NSASK_RECTYP_FIL+(65536*NSASK_RECTYP_FIL_SUCC) prefix NSAS;
constant RECID_FIL_FAIL equals NSASK_RECTYP_FIL+(65536*NSASK_RECTYP_FIL_FAIL) prefix NSAS;
```

```
/* System UAF
```

```
constant (RECTYP_SYSUAF_ADD,  /* System UAF record addition
RECTYP_SYSUAF_DEL,          /* System UAF record deletion
RECTYP_SYSUAF_MOD,          /* System UAF record modification
RECTYP_SYSUAF_COP,          /* System UAF record copied
RECTYP_SYSUAF_REN)          /* System UAF record renamed
equals T increment 1 counter #SUBTYPNUM prefix NSAS;
```

```
constant RECTYPNUM_SYSUAF equals #SUBTYPNUM prefix NSAS;
```

```
constant RECID_SYSUAF_ADD equals NSASK_RECTYP_SYSUAF+(65536*NSASK_RECTYP_SYSUAF_ADD) prefix NSAS;
```

```
constant RECID_SYSUAF_DEL equals NSASK_RECTYP_SYSUAF+(65536*NSASK_RECTYP_SYSUAF_DEL) prefix NSAS;
constant RECID_SYSUAF_MOD equals NSASK_RECTYP_SYSUAF+(65536*NSASK_RECTYP_SYSUAF_MOD) prefix NSAS;
constant RECID_SYSUAF_COP equals NSASK_RECTYP_SYSUAF+(65536*NSASK_RECTYP_SYSUAF_COP) prefix NSAS;
constant RECID_SYSUAF_REN equals NSASK_RECTYP_SYSUAF+(65536*NSASK_RECTYP_SYSUAF_REN) prefix NSAS;
```

/* Network UAF

```
constant (RECTYP_NETUAF_ADD, /* Network UAF record addition
RECTYP_NETUAF_DEL, /* Network UAF record deletion
RECTYP_NETUAF_MOD) /* Network UAF record modification
equals T increment 1 counter #SUBTYPNUM prefix NSAS;

constant RECTYPNUM_NETUAF equals #SUBTYPNUM prefix NSAS;

constant RECID_NETUAF_ADD equals NSASK_RECTYP_NETUAF+(65536*NSASK_RECTYP_NETUAF_ADD) prefix NSAS;
constant RECID_NETUAF_DEL equals NSASK_RECTYP_NETUAF+(65536*NSASK_RECTYP_NETUAF_DEL) prefix NSAS;
constant RECID_NETUAF_MOD equals NSASK_RECTYP_NETUAF+(65536*NSASK_RECTYP_NETUAF_MOD) prefix NSAS;
```

/* Login breakin detection

```
constant (RECTYP_LOGB_DIA, /* Dialup interactive breakin detection
RECTYP_LOGB_LOC, /* Local interactive breakin detection
RECTYP_LOGB_REM, /* Remote interactive breakin detection
RECTYP_LOGB_NET, /* Network breakin detection
RECTYP_LOGB_DET) /* Detached process breakin detection
equals T increment 1 counter #SUBTYPNUM prefix NSAS;

constant RECTYPNUM_LOGB equals #SUBTYPNUM prefix NSAS;

constant RECID_LOGB_DIA equals NSASK_RECTYP_LOGB+(65536*NSASK_RECTYP_LOGB_DIA) prefix NSAS;
constant RECID_LOGB_LOC equals NSASK_RECTYP_LOGB+(65536*NSASK_RECTYP_LOGB_LOC) prefix NSAS;
constant RECID_LOGB_REM equals NSASK_RECTYP_LOGB+(65536*NSASK_RECTYP_LOGB_REM) prefix NSAS;
constant RECID_LOGB_NET equals NSASK_RECTYP_LOGB+(65536*NSASK_RECTYP_LOGB_NET) prefix NSAS;
constant RECID_LOGB_DET equals NSASK_RECTYP_LOGB+(65536*NSASK_RECTYP_LOGB_DET) prefix NSAS;
```

/* Successful login

```
constant (RECTYP_LOGI_BAT, /* Batch process login
RECTYP_LOGI_DIA, /* Dialup interactive login
RECTYP_LOGI_LOC, /* Local interactive login
RECTYP_LOGI_REM, /* Remote interactive login
RECTYP_LOGI_NET, /* Network login
RECTYP_LOGI_SUB, /* Subprocess login
RECTYP_LOGI_DET) /* Detached process login
equals T increment 1 counter #SUBTYPNUM prefix NSAS;

constant RECTYPNUM_LOGI equals #SUBTYPNUM prefix NSAS;

constant RECID_LOGI_BAT equals NSASK_RECTYP_LOGI+(65536*NSASK_RECTYP_LOGI_BAT) prefix NSAS;
constant RECID_LOGI_DIA equals NSASK_RECTYP_LOGI+(65536*NSASK_RECTYP_LOGI_DIA) prefix NSAS;
constant RECID_LOGI_LOC equals NSASK_RECTYP_LOGI+(65536*NSASK_RECTYP_LOGI_LOC) prefix NSAS;
constant RECID_LOGI_REM equals NSASK_RECTYP_LOGI+(65536*NSASK_RECTYP_LOGI_REM) prefix NSAS;
constant RECID_LOGI_NET equals NSASK_RECTYP_LOGI+(65536*NSASK_RECTYP_LOGI_NET) prefix NSAS;
```



```
constant RECID_LOGI_SUB equals NSASK_RECTYP_LOGI+(65536*NSASK_RECTYP_LOGI_SUB) prefix NSAS;
constant RECID_LOGI_DET equals NSASK_RECTYP_LOGI+(65536*NSASK_RECTYP_LOGI_DET) prefix NSAS;
```

/* Login failure

```
constant (RECTYP_LOGF_BAT,          /* Batch process login failure
        RECTYP_LOGF_DIA,          /* Dialup interactive login failure
        RECTYP_LOGF_LOC,          /* Local interactive login failure
        RECTYP_LOGF_REM,          /* Remote interactive login failure
        RECTYP_LOGF_NET,          /* Network login failure
        RECTYP_LOGF_SUB,          /* Subprocess login failure
        RECTYP_LOGF_DET)          /* Detached process login failure
        equals T increment 1 counter #SUBTYPNUM prefix NSAS;
```

```
constant RECTYPNUM_LOGF equals #SUBTYPNUM prefix NSAS;
```

```
constant RECID_LOGF_BAT equals NSASK_RECTYP_LOGF+(65536*NSASK_RECTYP_LOGF_BAT) prefix NSAS;
constant RECID_LOGF_DIA equals NSASK_RECTYP_LOGF+(65536*NSASK_RECTYP_LOGF_DIA) prefix NSAS;
constant RECID_LOGF_LOC equals NSASK_RECTYP_LOGF+(65536*NSASK_RECTYP_LOGF_LOC) prefix NSAS;
constant RECID_LOGF_REM equals NSASK_RECTYP_LOGF+(65536*NSASK_RECTYP_LOGF_REM) prefix NSAS;
constant RECID_LOGF_NET equals NSASK_RECTYP_LOGF+(65536*NSASK_RECTYP_LOGF_NET) prefix NSAS;
constant RECID_LOGF_SUB equals NSASK_RECTYP_LOGF+(65536*NSASK_RECTYP_LOGF_SUB) prefix NSAS;
constant RECID_LOGF_DET equals NSASK_RECTYP_LOGF+(65536*NSASK_RECTYP_LOGF_DET) prefix NSAS;
```

/* Logout

```
constant (RECTYP_LOGO_BAT,          /* Batch process logout
        RECTYP_LOGO_DIA,          /* Dialup interactive logout
        RECTYP_LOGO_LOC,          /* Local interactive logout
        RECTYP_LOGO_REM,          /* Remote interactive logout
        RECTYP_LOGO_NET,          /* Network logout
        RECTYP_LOGO_SUB,          /* Subprocess logout
        RECTYP_LOGO_DET)          /* Detached process logout
        equals T increment 1 counter #SUBTYPNUM prefix NSAS;
```

```
constant RECTYPNUM_LOGO equals #SUBTYPNUM prefix NSAS;
```

```
constant RECID_LOGO_BAT equals NSASK_RECTYP_LOGO+(65536*NSASK_RECTYP_LOGO_BAT) prefix NSAS;
constant RECID_LOGO_DIA equals NSASK_RECTYP_LOGO+(65536*NSASK_RECTYP_LOGO_DIA) prefix NSAS;
constant RECID_LOGO_LOC equals NSASK_RECTYP_LOGO+(65536*NSASK_RECTYP_LOGO_LOC) prefix NSAS;
constant RECID_LOGO_REM equals NSASK_RECTYP_LOGO+(65536*NSASK_RECTYP_LOGO_REM) prefix NSAS;
constant RECID_LOGO_NET equals NSASK_RECTYP_LOGO+(65536*NSASK_RECTYP_LOGO_NET) prefix NSAS;
constant RECID_LOGO_SUB equals NSASK_RECTYP_LOGO+(65536*NSASK_RECTYP_LOGO_SUB) prefix NSAS;
constant RECID_LOGO_DET equals NSASK_RECTYP_LOGO+(65536*NSASK_RECTYP_LOGO_DET) prefix NSAS;
```

/* Volume operations

```
constant (RECTYP_VOL_MOU,          /* Volume mounts
        RECTYP_VOL_DMOU)          /* Volume dismounts
        equals T increment 1 counter #SUBTYPNUM prefix NSAS;
```

```
constant RECTYPNUM_VOL equals #SUBTYPNUM prefix NSAS;
```

```
constant RECID_VOL_MOU equals NSASK_RECTYP_VOL+(65536*NSASK_RECTYP_VOL_MOU) prefix NSAS;
constant RECID_VOL_DMOU equals NSASK_RECTYP_VOL+(65536*NSASK_RECTYP_VOL_DMOU) prefix NSAS;
```

```
/*+
/* Record header offset definitions
/*-
```

```
aggregate NSARECHDRDEF structure prefix NSAS;
```

```
REC_ID_OVERLAY union fill;
  REC_ID longword unsigned; /* Record identification longword
  REC_ID_FIELDS structure fill;
    REC_TYPE word unsigned; /* Record type
    REC_SUBTYPE word unsigned; /* Record subtype
  end REC_ID_FIELDS;
end REC_ID_OVERLAY;
REC_SEQNUM byte unsigned; /* This records sequence number
REC_SEQLAST byte unsigned; /* Last records sequence number
REC_FLAGS_OVERLAY union fill;
  REC_FLAGS byte unsigned; /* Record flags byte
  REC_FLAGS_BITS structure fill;
    REC_FLAGS_PKTCON bitfield length 1 mask; /* Last packet in record is
    /* continued in next record
  end REC_FLAGS_BITS;
end REC_FLAGS_OVERLAY;
REC_PKTNUM byte unsigned; /* Number of data packets in record
REC_PKTOFF word unsigned; /* Offset to first packet
REC_PKTHDRSZ word unsigned; /* Data packet header size
REC_EPID longword unsigned; /* Extended PID
REC_TIME quadword unsigned; /* Event time (EXESGQ_SYSTIME)
REC_CLUSNAM character length 16; /* Cluster node name
REC_PROCNAM character length 16; /* Process name
REC_USERNAM character length 12; /* username
REC_ACCTNAM character length 8; /* Account name
```

```
constant RECHDR_LENGTH equals . tag C;
constant RECHDR_LENGTH equals . tag K;
```

```
end NSARECHDRDEF;
```

```
/*+
/* Data packet type definitions
/*-
```

```
constant (PKTTYP_IMGAM, /* Image name packet
PKTTYP_FACMOD, /* File access mode
PKTTYP_PRIVUSED, /* Privilege used to access file
PKTTYP_FILNAM, /* File name
PKTTYP_DEVNAM, /* Device name
PKTTYP_LOGNAM, /* Logical name
PKTTYP_VOLNAM, /* Volume name
PKTTYP_VOLSNAM, /* Volume set name
PKTTYP_NODENAM, /* Node name
PKTTYP_USERNAM, /* User name
```

```

PKTTYP_PASSWORD,      /* Password
PKTTYP_UIC,           /* User identification code
PKTTYP_VOLPRO,        /* Volume protection
PKTTYP_MOUFLG,        /* Mount flags
PKTTYP_DMOUFLG,       /* Dismount flags
PKTTYP_NODEID,        /* Node ID
PKTTYP_EPID,          /* Extended PID
PKTTYP_SYSUAFF,       /* System UAF record fields
PKTTYP_STATUS)        /* Status longword
equals T increment 1 counter #PKTTYPNUM prefix NSAS;

```

```
constant PKTTYPNUM equals #PKTTYPNUM prefix NSAS;
```

```

/*+
/* Data packet offset definitions
/*-

```

```
aggregate NSAPKTDEF structure origin PKT_DATA prefix NSAS;
```

```

#PKTHDRBEG = .;
PKT_TYPE word unsigned;      /* Packet data type
PKT_SIZE word unsigned;      /* Packet size
PKT_DATA character length 0;

```

```

constant PKTHDR_LENGTH equals .-#PKTHDRBEG tag C;
constant PKTHDR_LENGTH equals .-#PKTHDRBEG tag K;

```

```

PKT_DATA OVERLAY union fill;
  PKT_IMGNAM character length 444;      /* Image name
  PKT_FACMOD longword unsigned;        /* File access mode
  PKT_PRIVUSED longword unsigned;      /* Privilege used to access file
  PKT_FILNAM character length 444;      /* File name
  PKT_DEVNAM character length 15;       /* Device name
  PKI_LOGNAM character length 255;      /* Logical name
  PKT_VOLNAM character length 12;       /* Volume name
  PKT_VOLSNAM character length 12;      /* Volume set name
  PKT_NODENAM character length 6;       /* Node name
  PKT_USERNAM character length 12;      /* User name
  PKT_PASSWORD character length 31;     /* Password
  PKT_UIC longword unsigned;           /* Volume UIC
  PKT_VOLPRO word unsigned;            /* Volume protection
  PKT_MOUFLG longword unsigned;        /* Mount flags
  PKT_DMOUFLG word unsigned;           /* Dismount flags
  PKT_NODEID quadword unsigned;        /* Node ID
  PKT_EPID longword unsigned;          /* Extended PID
  PKT_SYSUAFF quadword unsigned;       /* System UAF record fields
  PKT_STATUS longword unsigned;        /* Status longword

```

```

end PKT_DATA_OVERLAY;
end NSAPKTDEF;

```

```
end_module $NSARECDEF;
```

module \$OPRDEF;

/*+
/* OPERATOR COMMUNICATIONS MESSAGE TYPES AND VALUES
/*-

constant(
 TERMENABL
 , LOGINIT
 , OPRQST
 , OPREPLY
) equals 1 increment 1 prefix OPR tag \$;
/* OPERATOR MESSAGE TYPES
/* ENABLE TERMINAL
/* INITIALIZE THE LOG
/* OPERATOR REQUEST
/* OPERATOR REPLY

aggregate OPRDEF union prefix OPR\$:
OPRDEF BITS structure fill;
CENTRAL bitfield mask;
PRINTER bitfield mask;
TAPES bitfield mask;
DISKS bitfield mask;
DEVICES bitfield mask;
USER1 bitfield mask length 12;
USER2 bitfield mask;
USER3 bitfield mask;
USER4 bitfield mask;
USER5 bitfield mask;
USER6 bitfield mask;
USER7 bitfield mask;
USER8 bitfield mask;
USER9 bitfield mask;
USER10 bitfield mask;
USER11 bitfield mask;
USER12 bitfield mask;

end OPRDEF_BITS;
end OPRDEF;

end_module \$OPRDEF;

STA

mod

{*+
{*-

con
con
con
con
con
con

con
con
con
con
con
con
con
con
con
con
con
con
con
con
con

end

```
module $PCCDEF;
/*+
/* PRINTER/TERMINAL CARRIAGE CONTROL SPECIFIERS
/*--

aggregate PCCDEF structure prefix PCC$:
  FORTRAN word unsigned; /* FORTRAN FIELD
  'PREFIX' byte unsigned; /* PREFIX FIELD
  POSTFIX OVERLAY union fill;
  POSTFIX byte unsigned; /* POSTFIX FIELD
  POSTFIX BITS0 structure fill;
  CHAR bitfield mask length 5; /* CHARACTER FIELD
  FILL 1 bitfield fill prefix PCCDEF tag $$;
  EIGHTBIT bitfield mask; /* EIGHTBIT CHARACTER SET
  SINGLE bitfield mask; /* SINGLE CHARACTER
end POSTFIX_BITS0;
POSTFIX BITS1 structure fill;
  LINECNT bitfield mask length 7; /* LINE COUNT FOR NEWLINES
end POSTFIX_BITS1;

/* FORTRAN CONSTANTS
constant FTN_SINGLE equals 32 prefix PCC tag $; /* SINGLE SPACE
constant FTN_DOUBLE equals 48 prefix PCC tag $; /* DOUBLE SPACE
constant FTN_PAGE equals 49 prefix PCC tag $; /* PAGE SPACE
constant FTN_OVRPRT equals 43 prefix PCC tag $; /* OVER PRINT
constant FTN_PROMPT equals 36 prefix PCC tag $; /* PROMPT
end POSTFIX_OVERLAY;
end PCCDEF;

end_module $PCCDEF;
```

```
module $PLVDEF;
```

```
/*+  
/* PRIVILEGED LIBRARY VECTOR DEFINITION  
/*-
```

```
aggregate PLVDEF structure prefix PLV$;  
TYPE longword unsigned;
```

```
constant(  
  TYP_CM0D  
  TYP_MSG  
  ) equals 1 increment 1 prefix PLV tag $C;
```

```
VERSION longword unsigned;  
KERNEL_OVERLAY union fill;  
  KERNEL longword unsigned;  
  MSGDSP longword unsigned;
```

```
end KERNEL_OVERLAY;
```

```
EXEC longword unsigned;
```

```
USRUNDWN longword unsigned;
```

```
FILL_1 longword fill prefix PLVDEF tag $$;
```

```
RMS longword unsigned;
```

```
CHECK longword unsigned;
```

```
end PLVDEF;
```

```
end_module $PLVDEF;
```

```
/*TYPE CODE FOR VECTOR FORMAT  
/*TYPE CODES FOR PRIVILEGE VECTORS
```

```
/*CHANGE MODE VECTOR TYPE  
/*MESSAGE VECTOR TYPE
```

```
/*SYSTEM VERSION NUMBER
```

```
/*SELF-REL PTR TO KERNEL MODE DISPATCHER  
/*SELF-REL PTR TO MESSAGE DISPATCHER
```

```
/*SELF-REL PTR TO EXEC MODE DISPATCHER  
/*SELF-REL PTR TO USER RUNDOWN SERVICE  
/*UNUSED, RESERVED FOR FUTURE USE  
/*SELF-REL PTR TO RMS SERVICES DISPATCHER  
/*LONGWORD USED TO CHECK VIRTUAL ADDRESS  
/*LOCATION OF VECTOR
```

STA

mod

{*+

{*

{*-

con

con

con

con

end

module \$PQLDEF;

mod

/*+
/* PROCESS QUOTA LIST CODES
/*-

{*+
{*
{*-

constant(
 LISTEND
 , ASTLM
 , BIOLM
 , BYTLM
 , CPULM
 , DIOLM
 , FILLM
 , PGFLQUOTA
 , PRCLM
 , TQELM
 , WSQUOTA
 , WDEFAULT
 , ENQLM
 , WSEXTENT
 , JTQUOTA
 , 'LENGTH'
) equals 0 increment 1 prefix PQL tag \$;

/*LIST END CODE (MUST BE FIRST)
/*AST LIMIT
/*BUFFERED I/O LIMIT
/*BYTE LIMIT FOR BUFFERED I/O
/*CPU TIME LIMIT
/*DIRECT I/O LIMIT
/*OPEN FILE LIMIT
/*PAGING FILE QUOTA
/*SUB-PROCESS LIMIT
/*TIMER QUEUE ENTRY LIMIT
/*WORKING SET QUOTA
/*WORKING SET DEFAULT
/*ENQUEUE LIMIT
/*WORKING SET EXTENT LIMIT
/*JOB-WIDE LOGICAL NAME TABLE CREATION QUOTA
/*NUMBER OF QUOTAS (MUST BE LAST)

con
con
con
con

con
con
con
con
con
con
con
con
con
con
end

end_module \$PQLDEF;

```
module $PRCDEF;
```

```
/*+
/* SCREPRC STATUS FLAGS AND ITEM CODES
/*-
```

```
aggregate PRCDEF union prefix PRC$;
```

```
  PRCDEF BITS structure fill;
```

```
    SSRWAIT bitfield mask; /* RESOURCE WAIT DISABLE
    SSFEXCU bitfield mask; /* SYSTEM SERVICE FAIL EXCEPTION MODE
    PSWAPM bitfield mask; /* PROCESS SWAP MODE
    NOACNT bitfield mask; /* ACCOUNTING MESSAGE DISABLE
    BATCH bitfield mask; /* BATCH INDICATOR
    HIBER bitfield mask; /* HIBERNATE BEFORE CALLING INITIAL IMAGE
    NOUAF bitfield mask; /* BYPASS LOGIN VERIFICATION FOR DETACHED PROC.
    NETWRK bitfield mask; /* NETWORK INDICATOR
    DISAWS bitfield mask; /* DISABLE WORKING SET ADJUST
    DETACH bitfield mask; /* DETACHED PROCESS
    INTER bitfield mask; /* INTERACTIVE INDICATOR
    IMGDMP bitfield mask; /* IMAGE DUMP REQUESTED
    CLISPEC bitfield mask; /* PASS CLI SPECIFICATIONS
    NOPASSWORD bitfield mask; /* DON'T PROMPT FOR USERNAME AND PASSWORD
```

```
  end PRCDEF BITS;
```

```
  PRCDEF OBSOLETE structure fill;
```

```
    FILL 0 bitfield length 6 fill;
```

```
    LOGIN bitfield mask; /* BYPASS LOGIN VERIFICATION FOR DETACHED PROC.
```

```
  end PRCDEF_OBSOLETE;
```

```
end PRCDEF;
```

```
/*+
/*
/* Create Process Item List Data Identifier Definitions
/*
```

```
/* ***** NOTE *****
```

```
/*
/* New items must always be added at the END of the list so that
/* users will not have to relink or reassemble.
/*
```

```
/*-
```

```
constant(
```

```
  LISTEND /* End of list (must be first code)
  , PGFLCHAR /* Page file characteristics
  , PGFLINDEX /* Page file index
  , INPUT_ATT /* SYSSINPUT attributes
  , OUTPUT_ATT /* SYSSOUTPUT attributes
  , ERROR_ATT /* SYSSERROR attributes
) equals 0 increment 1 prefix PRC tag $;
```

```
end_module $PRCDEF;
```



```
module $PRVDEF;
```

```
/*+
/* PRIVILEGE BIT DEFINITIONS
/*
/* Note that any privileges added here must also be reflected in the
/* modules [VMSLIB.SRC]SETPRIV.MAR, [CLIUTL.SRC]SHOWPROC.B32,
/* [RTL.SRC]LIBLEXICA.B32, and
/* [CLD.SRC]DCLINT.CLD, MCRINT.CLD, MCRSET.CLD, RUN.CLD, and SET.CLD
/* to completely add the new privilege.
/*
/*-
```

```
aggregate PRVDEF union prefix PRV$;
```

```
PRVDEF BITSO structure fill;
  CMKRNL bitfield mask; /* MAY CHANGE MODE TO KERNEL
  CMEXEC bitfield mask; /* MAY CHANGE MODE TO EXEC
/* ***** THE PRECEEDING TWO BITS MUST BE ADJACENT
/* ***** THE FOLLOWING TWO BITS MUST BE ADJACENT
  SYSNAM bitfield mask; /* MAY INSERT IN SYSTEM LOGICAL NAME TABLE
  GRPNAM bitfield mask; /* MAY INSERT IN GROUP LOGICAL NAME TABLE
/* ***** THE PRECEEDING TWO BITS MUST BE ADJACENT
  ALLSPOOL bitfield mask; /*MAY ALLOCATE SPOOLED DEVICE
  DETACH bitfield mask; /* MAY CREATE DETACHED PROCESSES
  DIAGNOSE bitfield mask; /* MAY DIAGNOSE DEVICES
  LOG IO bitfield mask; /* MAY DO LOGICAL I/O
  GROOP bitfield mask; /* MAY AFFECT OTHER PROCESSES IN SAME GROUP
  NOACNT bitfield mask; /* MAY SUPPRESS ACCOUNTING MESSAGE
  PRMCEB bitfield mask; /* MAY CREATE PERMANENT COMMON EVENT CLUSTERS
  PRMMBX bitfield mask; /* MAY CREATE PERMANENT MAILBOX
  PSWAPM bitfield mask; /* MAY CHANGE PROCESS SWAP MODE
  SETPRI bitfield mask; /* MAY SET ANY PRIORITY VALUE
  SETPRV bitfield mask; /* MAY SET ANY PRIVILEGE BITS
  TMPMBX bitfield mask; /* MAY CREATE TEMPORARY MAILBOX
  WORLD bitfield mask; /* MAY AFFECT OTHER PROCESSES IN THE WORLD
  MOUNT bitfield mask; /* MAY EXECUTE MOUNT ACP FUNCTIONS
  OPER bitfield mask; /* OPERATOR PRIVILEGE
  EXQUOTA bitfield mask; /* MAY EXCEED QUOTAS
  NETMBX bitfield mask; /* MAY CREATE NETWORK DEVICE
  VOLPRO bitfield mask; /* MAY OVERRIDE VOLUME PROTECTION
  PHY IO bitfield mask; /* MAY DO PHYSICAL I/O
  BUGCHK bitfield mask; /* MAY MAKE BUG CHECK ERROR LOG ENTRIES
  PRMGBL bitfield mask; /* MAY CREATE PERMANENT GLOBAL SECTIONS
  SYSGBL bitfield mask; /* MAY CREATE SYSTEM WIDE GLOBAL SECTIONS
  PFNMAP bitfield mask; /* MAY MAP TO SECTION BY PFN
  SHMEM bitfield mask; /* MAY ALLOCATE STRUCTURES IN SHARED MEMORY
  SYSPRV bitfield mask; /* ELIGIBLE FOR SYSTEM PROTECTION FIELD
  BYPASS bitfield mask; /* MAY BYPASS UIC BASED PROTECTION
  SYSLCK bitfield mask; /* MAY CREATE SYSTEM WIDE LOCKS
  SHARE bitfield mask; /* MAY ASSIGN CHANNEL TO NON-SHARED DEVICE
{
{ The following bits are in the second longword,
and thus, cannot have prv$m_ symbols...
  UPGRADE bitfield; /* May upgrade classification
  DOWNGRADE bitfield; /* May downgrade classification
  GRPPRV bitfield; /* Group access via system protection field
```

```
    READALL bitfield;          /* Read access to everything
    TMPJNL bitfield;          /* May create temporary journals
    PRMJNL bitfield;         /* May create permanent journals
    SECURITY bitfield;       /* May perform security functions
end PRVDEF_BITS0;

                                /* ***** THE FOLLOWING TWO BITS MUST BE ADJACENT

PRVDEF_BITS1 structure fill;
  FICL_1 bitfield length 9 fill prefix PRVDEF tag $$; /* SKIP 9
  ACNT bitfield mask;      /* MAY SUPPRESS ACCOUNTING MESSAGES (NOACNT)
  FILL_2 bitfield length 3 fill prefix PRVDEF tag $$; /* SKIP 3
  ALTPRI bitfield mask;   /* MAY SET ANY PRIORITY VALE (SETPRI)
end PRVDEF_BITS1;
end PRVDEF;

end_module $PRVDEF;
```

module \$PRTDEF;

/*+
/* PROTECTION FIELD DEFINITIONS
/*-

constant NA	equals	(%B0000)	prefix PRT tag \$C;	/* NO ACCESS
constant KR	equals	(%B0011)	prefix PRT tag \$C;	/* KERNEL READ ONLY
constant KW	equals	(%B0010)	prefix PRT tag \$C;	/* KERNEL WRITE
constant ER	equals	(%B0111)	prefix PRT tag \$C;	/* EXEC READ ONLY
constant EW	equals	(%B0101)	prefix PRT tag \$C;	/* EXEC WRITE
constant SR	equals	(%B1011)	prefix PRT tag \$C;	/* SUPER READ ONLY
constant SW	equals	(%B1000)	prefix PRT tag \$C;	/* SUPER WRITE
constant UR	equals	(%B1111)	prefix PRT tag \$C;	/* USER READ ONLY
constant UW	equals	(%B0100)	prefix PRT tag \$C;	/* USER WRITE
constant ERKW	equals	(%B0110)	prefix PRT tag \$C;	/* EXEC READ KERNEL WRITE
constant SRKW	equals	(%B1010)	prefix PRT tag \$C;	/* SUPER READ KERNEL WRITE
constant SREW	equals	(%B1001)	prefix PRT tag \$C;	/* SUPER READ EXEC WRITE
constant URKW	equals	(%B1110)	prefix PRT tag \$C;	/* USER READ KERNEL WRITE
constant UREW	equals	(%B1101)	prefix PRT tag \$C;	/* USER READ EXEC WRITE
constant URSW	equals	(%B1100)	prefix PRT tag \$C;	/* USER READ SUPER WRITE
constant RESERVED	equals	1	prefix PRT tag \$C;	/* RESERVED

end_module \$PRTDEF;

STA

mod

/*+

/*

/*-

agg

/*

/*

/*

end

end

```
module $PRDEF;
```

```
/*+
/* PROCESSOR REGISTER DEFINITIONS
/*-
```

```
constant KSP      equals 0  prefix PR tag $; /*KERNEL STACK POINTER
constant ESP      equals 1  prefix PR tag $; /*EXECUTIVE STACK POINTER
constant SSP      equals 2  prefix PR tag $; /*SUPERVISOR STACK POINTER
constant USP      equals 3  prefix PR tag $; /*USER STACK POINTER
constant ISP      equals 4  prefix PR tag $; /*INTERRUPT STACK POINTER
constant POBR     equals 8  prefix PR tag $; /*PO BASE REGISTER
constant POLR     equals 9  prefix PR tag $; /*PO LIMIT REGISTER
constant P1BR     equals 10 prefix PR tag $; /*P1 BASE REGISTER
constant P1LR     equals 11 prefix PR tag $; /*P1 LIMIT REGISTER
constant SBR      equals 12 prefix PR tag $; /*SYSTEM BASE REGISTER
constant SLR      equals 13 prefix PR tag $; /*SYSTEM LIMIT REGISTER
constant PCBB     equals 16 prefix PR tag $; /*PROCESS CONTROL BLOCK BASE
constant SCBB     equals 17 prefix PR tag $; /*SYSTEM CONTROL BLOCK BASE
constant IPL      equals 18 prefix PR tag $; /*INTERRUPT PRIORITY LEVEL REGISTER
constant ASTLVL   equals 19 prefix PR tag $; /*AST LEVEL REGISTER
constant SIRR     equals 20 prefix PR tag $; /*SOFTWARE INTERRUPT REQUEST REGISTER
constant SISR     equals 21 prefix PR tag $; /*SOFTWARE INTERRUPT SUMMARY REGISTER
constant ICCS     equals 24 prefix PR tag $; /* INTERVAL CLOCK CONTROL STATUS REGISTER
constant RXCS     equals 32 prefix PR tag $; /* CONSOLE RECEIVER CONTROL STATUS REGISTER
constant RXDB     equals 33 prefix PR tag $; /* CONSOLE RECEIVER DATA BUFFER REGISTER
constant TXCS     equals 34 prefix PR tag $; /* CONSOLE TRANSMIT CONTROL STATUS REGISTER
constant TXDB     equals 35 prefix PR tag $; /* CONSOLE TRANSMIT DATA BUFFER REGISTER
constant MAPEN    equals 56 prefix PR tag $; /* MAPPING ENABLE REGISTER
constant TBIA     equals 57 prefix PR tag $; /* TRANSLATION BUFFER INVALIDATE ALL
constant TBIS     equals 58 prefix PR tag $; /* TRANSLATION BUFFER INVALIDATE SINGLE
constant SID      equals 62 prefix PR tag $; /* SYSTEM IDENTIFICATION REGISTER
constant TBCHK    equals 63 prefix PR tag $; /* TRANSLATION BUFFER VALID CHECK
```

```
aggregate PRDEF union prefix PR$:
PRDEF_BITS structure fill:
  SID_SN bitfield length 12;
  SID_PL bitfield length 3;
  SID_ECO bitfield length 9;
  SID_TYPE bitfield length 8;
end PRDEF_BITS;
```

```
/* SERIAL NUMBER FIELD
/* PLANT ID
/* ECO LEVEL
/* CPU TYPE CODE
```

```
constant TYP780   equals 1  prefix PR$_S tag ID; /* SYSTEM ID REGISTER CPU TYPES
constant TYP750   equals 2  prefix PR$_S tag ID; /* VAX 11/780
constant TYP730   equals 3  prefix PR$_S tag ID; /* VAX 11/750
constant TYP790   equals 4  prefix PR$_S tag ID; /* VAX 11/730
constant TYP8SS   equals 5  prefix PR$_S TAG ID; /* VAX 11/790
constant TYP8NN   equals 6  prefix PR$_S TAG ID; /* Scorpio for now
constant TYPMAX   equals 8  prefix PR$_S tag ID; /* Nautilus for now
constant TYPUV1   equals 7  prefix PR$_S tag ID; /* MAX LEGAL CPU TYPE
constant TYPUV2   equals 8  prefix PR$_S tag ID; /* Micro-VAX cpus
constant WCSA     equals 44  prefix PR tag $; /* Micro-VAX UV1
constant WCSD     equals 45  prefix PR tag $; /* Micro-VAX UV2
/*VAX 11/780 IPR'S:
/* WCS ADDRESS REGISTER
/* WCS DATA REGISTER
```

```

constant SBIFS      equals 48 prefix PR tag $: /* SBI FAULT STATUS REGISTER
constant SBIS       equals 49 prefix PR tag $: /* SBI SILO REGISTER
constant SBISC      equals 50 prefix PR tag $: /* SBI COMPARATOR REGISTER
constant SBIMT      equals 51 prefix PR tag $: /* SBI MAINTENANCE REGISTER
constant SBIER      equals 52 prefix PR tag $: /* SBI ERROR REGISTER
constant SBITA      equals 53 prefix PR tag $: /* SBI TIMEOUT ADDRESS REGISTER
constant SBIQC      equals 54 prefix PR tag $: /* SBI QUADWORD CLEAR REGISTER
/*END OF VAX 11/780-SPECIFIC IPR'S
/*VAX 11/750 AND 11/730 IPR'S:
constant CMIERR     equals 23 prefix PR tag $: /* CMI ERROR SUMMARY REGISTER
constant CSRS       equals 28 prefix PR tag $: /* CONSOLE BLK STORE RCV STATUS
constant CSRD       equals 29 prefix PR tag $: /* CONSOLE BLK STORE RCV DATA
constant CSTS       equals 30 prefix PR tag $: /* CONSOLE BLK STORE XMIT STATUS
constant CSTD       equals 31 prefix PR tag $: /* CONSOLE BLK STORE XMIT DATA
constant TBDR       equals 36 prefix PR tag $: /* TB DISABLE REGISTER
constant CADR       equals 37 prefix PR tag $: /* CACHE DISABLE REGISTER
constant MCESR      equals 38 prefix PR tag $: /* MACHINE CHECK ERROR SUMMARY REG
constant CAER       equals 39 prefix PR tag $: /* CACHE ERROR REGISTER
constant UBRESET    equals 55 prefix PR tag $: /* UNIBUS I/O RESET REGISTER
/*END OF 11/750 AND 11/730 IPR'S
/*VAX 11/790 PROCESSOR-SPECIFIC IPRS
constant PAMACC     equals 64 prefix PR tag $: /* PAMM ACCESS
constant PAMLOC     equals 65 prefix PR tag $: /* PAMM LOCATION
constant CSWP       equals 66 prefix PR tag $: /* CACHE SWEEP REGISTER
constant MDECC      equals 67 prefix PR tag $: /* MBOX DATA ECC REGISTER
constant MENA       equals 68 prefix PR tag $: /* MBOX ERROR ENABLE REGISTER
constant MDCTL      equals 69 prefix PR tag $: /* MBOX DATA CONTROL REGISTER
constant MCCTL      equals 70 prefix PR tag $: /* MBOX MCC CONTROL REGISTER
constant MERG       equals 71 prefix PR tag $: /* MBOX ERROR GENERATOR REGISTER
constant CRBT       equals 72 prefix PR tag $: /* CONSOLE REBOOT
constant DFI        equals 73 prefix PR tag $: /* DIAGNOSTIC FAULT INSERTION
constant EHSR       equals 74 prefix PR tag $: /* ERROR HANDLING STATUS REGISTER
constant ACCS790    equals 75 prefix PR tag $: /* ACCELERATOR STATUS REGISTER
constant STXCS      equals 76 prefix PR tag $: /* CONSOLE STORAGE CONTROL REG
constant STXDB      equals 77 prefix PR tag $: /* CONSOLE STORAGE DATA REGISTER
constant LSPA       equals 78 prefix PR tag $: /* SCRATCHPAD ADDRESS
constant RSPD       equals 79 prefix PR tag $: /* SCRATCHPAD DATA
/*END OF 11/790 PROCESSOR-SPECIFIC IPRS
end PRDEF;
end_module $PRDEF;

```

```
module $PR730DEF;
```

```
{*+  
{* 11/730-Specific Processor Register Definitions  
{*-
```

```
constant NICR equals 25 prefix PR730 tag $: /* INTERVAL CLOCK NEXT INTERVAL REGISTER  
constant ICR equals 26 prefix PR730 tag $: /* INTERVAL CLOCK INTERVAL COUNT REGISTER  
constant TODR equals 27 prefix PR730 tag $: /* TIME OF DAY REGISTER  
constant ACCS equals 40 prefix PR730 tag $: /* ACCELERATOR CONTROL STATUS REGISTER  
constant ACCR equals 41 prefix PR730 tag $: /* ACCELERATOR RESERVED  
constant PME equals 61 prefix PR730 tag $: /* PERFORMANCE MONITOR ENABLE  
  
constant CMIERR equals 23 prefix PR730 tag $: /* CMI ERROR SUMMARY REGISTER  
constant CSRS equals 28 prefix PR730 tag $: /* CONSOLE BLK STORE RCV STATUS  
constant CSRD equals 29 prefix PR730 tag $: /* CONSOLE BLK STORE RCV DATA  
constant CSTS equals 30 prefix PR730 tag $: /* CONSOLE BLK STORE XMIT STATUS  
constant CSTD equals 31 prefix PR730 tag $: /* CONSOLE BLK STORE XMIT DATA  
constant TBDR equals 36 prefix PR730 tag $: /* TB DISABLE REGISTER  
constant CADR equals 37 prefix PR730 tag $: /* CACHE DISABLE REGISTER  
constant MCESR equals 38 prefix PR730 tag $: /* MACHINE CHECK ERROR SUMMARY REG  
constant CAER equals 39 prefix PR730 tag $: /* CACHE ERROR REGISTER  
constant UBRESET equals 55 prefix PR730 tag $: /* UNIBUS I/O RESET REGISTER
```

```
end_module $PR730DEF;
```

module \$PR750DEF;

{**
{* 11/750-Specific Processor Register Definitions
{*-

```
constant NICR equals 25 prefix PR750 tag $: /* INTERVAL CLOCK NEXT INTERVAL REGISTER
constant ICR equals 26 prefix PR750 tag $: /* INTERVAL CLOCK INTERVAL COUNT REGISTER
constant TODR equals 27 prefix PR750 tag $: /* TIME OF DAY REGISTER
constant ACCS equals 40 prefix PR750 tag $: /* ACCELERATOR CONTROL STATUS REGISTER
constant ACCR equals 41 prefix PR750 tag $: /* ACCELERATOR RESERVED
constant PME equals 61 prefix PR750 tag $: /* PERFORMANCE MONITOR ENABLE

constant CMIERR equals 23 prefix PR750 tag $: /* CM: ERROR SUMMARY REGISTER
constant CSRS equals 28 prefix PR750 tag $: /* CONSOLE BLK STORE RCV STATUS
constant CSRD equals 29 prefix PR750 tag $: /* CONSOLE BLK STORE RCV DATA
constant CSTS equals 30 prefix PR750 tag $: /* CONSOLE BLK STORE XMIT STATUS
constant CSTD equals 31 prefix PR750 tag $: /* CONSOLE BLK STORE XMIT DATA
constant TBDR equals 36 prefix PR750 tag $: /* TB DISABLE REGISTER
constant CADR equals 37 prefix PR750 tag $: /* CACHE DISABLE REGISTER
constant MCESR equals 38 prefix PR750 tag $: /* MACHINE CHECK ERROR SUMMARY REG
constant CAER equals 39 prefix PR750 tag $: /* CACHE ERROR REGISTER
constant UBRESET equals 55 prefix PR750 tag $: /* UNIBUS I/O RESET REGISTER
```

end_module \$PR750DEF;

```
module $PR780DEF;
```

```
{*+  
{* 11/780-Specific Processor Register Definitions  
{*-
```

```
constant NICR equals 25 prefix PR780 tag $: /* INTERVAL CLOCK NEXT INTERVAL REGISTER  
constant ICR equals 26 prefix PR780 tag $: /* INTERVAL CLOCK INTERVAL COUNT REGISTER  
constant TODR equals 27 prefix PR780 tag $: /* TIME OF DAY REGISTER  
constant ACCS equals 40 prefix PR780 tag $: /* ACCELERATOR CONTROL STATUS REGISTER  
constant ACCR equals 41 prefix PR780 tag $: /* ACCELERATOR RESERVED  
constant PME equals 61 prefix PR780 tag $: /* PERFORMANCE MONITOR ENABLE  
  
constant WCSA equals 44 prefix PR780 tag $: /* WCS ADDRESS REGISTER  
constant WCSD equals 45 prefix PR780 tag $: /* WCS DATA REGISTER  
constant SBIFS equals 48 prefix PR780 tag $: /* SBI FAULT STATUS REGISTER  
constant SBIS equals 49 prefix PR780 tag $: /* SBI SILO REGISTER  
constant SBISC equals 50 prefix PR780 tag $: /* SBI COMPARATOR REGISTER  
constant SBIMT equals 51 prefix PR780 tag $: /* SBI MAINTENANCE REGISTER  
constant SBIER equals 52 prefix PR780 tag $: /* SBI ERROR REGISTER  
constant SBITA equals 53 prefix PR780 tag $: /* SBI TIMEOUT ADDRESS REGISTER  
constant SBIQC equals 54 prefix PR780 tag $: /* SBI QUADWORD CLEAR REGISTER
```

```
end_module $PR780DEF;
```


module \$PR790DEF;

{**
{* 11/790-Specific Processor Register Definitions
{*-

```
constant NICR equals 25 prefix PR790 tag $: /* INTERVAL CLOCK NEXT INTERVAL REGISTER
constant ICR equals 26 prefix PR790 tag $: /* INTERVAL CLOCK INTERVAL COUNT REGISTER
constant TODR equals 27 prefix PR790 tag $: /* TIME OF DAY REGISTER
constant ACCS equals 40 prefix PR790 tag $: /* ACCELERATOR CONTROL STATUS REGISTER
constant ACCR equals 41 prefix PR790 tag $: /* ACCELERATOR RESERVED
constant PME equals 61 prefix PR790 tag $: /* PERFORMANCE MONITOR ENABLE

constant PAMACC equals 64 prefix PR790 tag $: /* PAMM ACCESS
constant PAMLOC equals 65 prefix PR790 tag $: /* PAMM LOCATION
constant CSWP equals 66 prefix PR790 tag $: /* CACHE SWEEP REGISTER
constant MDECC equals 67 prefix PR790 tag $: /* MBOX DATA ECC REGISTER
constant MENA equals 68 prefix PR790 tag $: /* MBOX ERROR ENABLE REGISTER
constant MDCTL equals 69 prefix PR790 tag $: /* MBOX DATA CONTROL REGISTER
constant MCCTL equals 70 prefix PR790 tag $: /* MBOX MCC CONTROL REGISTER
constant MERG equals 71 prefix PR790 tag $: /* MBOX ERROR GENERATOR REGISTER
constant CRBT equals 72 prefix PR790 tag $: /* CONSOLE REBOOT
constant DFI equals 73 prefix PR790 tag $: /* DIAGNOSTIC FAULT INSERTION
constant EHSR equals 74 prefix PR790 tag $: /* ERROR HANDLING STATUS REGISTER
constant ACCS790 equals 75 prefix PR790 tag $: /* ACCELERATOR STATUS REGISTER
constant STXCS equals 76 prefix PR790 tag $: /* CONSOLE STORAGE CONTROL REG
constant STXDB equals 77 prefix PR790 tag $: /* CONSOLE STORAGE DATA REGISTER
constant LSPA equals 78 prefix PR790 tag $: /* SCRATCHPAD ADDRESS
constant RSPD equals 79 prefix PR790 tag $: /* SCRATCHPAD DATA
```

end_module \$PR790DEF;

```
module $PRUV1DEF;
```

```
{**  
{* Micro-VAX I Processor-specific Register Definitions  
{*-
```

```
constant CADR equals 37 prefix PRUV1 tag $; /* CACHE DISABLE REGISTER  
constant MCSR equals 38 prefix PRUV1 tag $; /* MACHINE CHECK ERROR SUMMARY REG  
constant IORESET equals 55 prefix PRUV1 tag $; /* INITIALIZE BUS REGISTER
```

```
end_module $PRUV1DEF;
```

module \$PRUV2DEF;

{**
{* Micro-VAX II Processor-specific Register Definitions
{*-

constant SAVISP equals 41 prefix PRUV2 tag \$; /* CONSOLE SAVED INTERRUPT STACK POINTER
constant SAVPC equals 42 prefix PRUV2 tag \$; /* CONSOLE SAVED PC REGISTER
constant SAVPSL equals 43 prefix PRUV2 tag \$; /* CONSOLE SAVED PSL REGISTER
constant IORESET equals 55 prefix PRUV2 tag \$; /* INITIALIZE BUS REGISTER

end_module \$PRUV2DEF;

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```
module $PR8SSDEF;
```

```
(**
(* 11/BSS-Specific Processor Register Definitions
(*-
```

```
constant IPIR equals 22 prefix PR8SS tag $: /* Interprocessor Interrupt Reg.
constant NICR equals 25 prefix PR8SS tag $: /* Interval Clock Next Interval Register
constant ICR equals 26 prefix PR8SS tag $: /* Interval Clock Interval Count Register
constant TODR equals 27 prefix PR8SS tag $: /* Time Of Day Register
constant TBDR equals 36 prefix PR8SS tag $: /* Translation Buffer Disable Register
constant CADR equals 37 prefix PR8SS tag $: /* Cache Disable Register
constant MCESR equals 38 prefix PR8SS tag $: /* Machine Check Error Summary Register
constant ACCS equals 40 prefix PR8SS tag $: /* Floating Point Accelerator Register
constant WCSA equals 44 prefix PR8SS tag $: /* WCS Address Register
constant WCSD equals 45 prefix PR8SS tag $: /* WCS Data Register
constant WCSC equals 46 prefix PR8SS tag $: /* WCS Cam Register
constant PME equals 61 prefix PR8SS tag $: /* Performance Monitor Enable

constant RXCS1 equals 80 prefix PR8SS tag $: /* Serial Line 1 Receive CSR
constant RXDB1 equals 81 prefix PR8SS tag $: /* Serial Line 1 Receive Data Buffer
constant TXCS1 equals 82 prefix PR8SS tag $: /* Serial Line 1 Transmit CSR
constant TXDB1 equals 83 prefix PR8SS tag $: /* Serial Line 1 Transmit Data Buffer
constant RXCS2 equals 84 prefix PR8SS tag $: /* Serial Line 2 Receive CSR
constant RXDB2 equals 85 prefix PR8SS tag $: /* Serial Line 2 Receive Data Buffer
constant TXCS2 equals 86 prefix PR8SS tag $: /* Serial Line 2 Transmit CSR
constant TXDB2 equals 87 prefix PR8SS tag $: /* Serial Line 2 Transmit Data Buffer
constant RXCS3 equals 88 prefix PR8SS tag $: /* Serial Line 3 Receive CSR
constant RXDB3 equals 89 prefix PR8SS tag $: /* Serial Line 3 Receive Data Buffer
constant TXCS3 equals 90 prefix PR8SS tag $: /* Serial Line 3 Transmit CSR
constant TXDB3 equals 91 prefix PR8SS tag $: /* Serial Line 3 Transmit Data Buffer

constant RXCD equals 92 prefix PR8SS tag $: /* Receive Console Data Register
constant CACHEX equals 93 prefix PR8SS tag $: /* Cache Invalidate Register
constant BINID equals 94 prefix PR8SS tag $: /* BI Node ID Register
constant BIINIT equals 95 prefix PR8SS tag $: /* BI Init Nodes Register

aggregate PR8SSDEF union prefix PR8SS$:
  PR8SSSID_BITS structure fill; /* Read only SID register
    SID_DCREV bitfield length 8; /* Ucode Revision Level
    SID_SECP bitfield mask; /* Secondary Patch Bit
    SID_PATREV bitfield length 10; /* Patch Rev Level
    SID_CPUREV bitfield length 5; /* CPU Rev level
    SID_TYPE bitfield length 8; /* CPU Type Code
  end PR8SSSID_BITS;

  PR8SSRXCS_BITS structure fill; /* Console RCV CSR
    FILL_1 bitfield length 6 fill prefix PR8SS tag $$; /*
    RXCS_IE bitfield mask; /* Interrupt Enable
    RXCS_DONE bitfield mask; /* 1=> Char. received
  end PR8SSRXCS_BITS;

  PR8SSRXDB_BITS structure fill; /* Console RCV Data Register
    RXDB_DATA bitfield length 8; /* Received Data
    FILL_2 bitfield length 7 fill prefix PR8SS tag $$; /*
```

```

RXDB_ERR    bitfield mask;          /* Error
end PR8SSRXDB_BITS;

PR8SSTXCS_BITS structure fill;      /* Console Transmit CSR
FILL_3 bitfield length 6 fill prefix PR8SS tag $$; /*
TXCS_IE    bitfield mask;          /* Interrupt Enable
TXCS_RDY   bitfield mask;          /* Ready
TXCS_BRE   bitfield mask;          /* (WO) Baud Rate Enable
FILL_4 bitfield length 1 fill prefix PR8SS tag $$; /*
TXCS_BAUD  bitfield length 3;      /* Baud Rate
/* Values to set baud rates
constant BAUD300 equals 0 prefix PR8SS tag $; /* Baud Rate of 300
constant BAUD600 equals 1 prefix PR8SS tag $; /* Baud Rate of 600
constant BAUD1200 equals 2 prefix PR8SS tag $; /* Baud Rate of 1200
constant BAUD2400 equals 3 prefix PR8SS tag $; /* Baud Rate of 2400
constant BAUD4800 equals 4 prefix PR8SS tag $; /* Baud Rate of 4800
constant BAUD9600 equals 5 prefix PR8SS tag $; /* Baud Rate of 9600
constant BAUD19200 equals 6 prefix PR8SS tag $; /* Baud Rate of 19200
constant BAUD38400 equals 7 prefix PR8SS tag $; /* Baud Rate of 38400

end PR8SSTXCS_BITS;

PR8SSTXDB_BITS structure fill;      /* Console Transmit Data Register
TXDB_DATA  bitfield length 8;      /* Data to Transmit
TXDB_ID    bitfield length 4;      /* ID - Destination of
/* transmitted data -
/* 0=>UART0, F=>Console
/* command
/* Possible Console Commands
constant BOOTCPU equals 2 prefix PR8SS tag $; /* Boot CPU Command
constant CLRWARM equals 3 prefix PR8SS tag $; /* Clear Warm-start Flag
constant CLRCOLD equals 4 prefix PR8SS tag $; /* Clear Cold-start Flag
end PR8SSTXDB_BITS;

PR8SSCADR_BITS structure fill;      /* Cache Disable Register
CADR_D    bitfield mask;          /* Disable Cache
CADR_H    bitfield mask;          /* Force 100% Cache Hits
end PR8SSCADR_BITS;

PR8SSWCSA_BITS structure fill;      /* WCS (Patch) Address Reg
WCSA_DATA bitfield length 8;      /* High Order Data Bits
FILL_4 bitfield length 8 fill prefix PR8SS tag $$; /*
WCSA_RAMADR bitfield length 16;    /* Ram Address
end PR8SSWCSA_BITS;

PR8SSWCSC_BITS structure fill;      /* WCS (Patch) CAM Reg
FILL_5 bitfield length 8 fill prefix PR8SS tag $$; /*
WCSC_CAMADR bitfield length 8;     /* Cam Address
WCSC_ROMADR bitfield length 16;    /* Rom Address
end PR8SSWCSC_BITS;

PR8SSRXCD_BITS structure fill;      /* Receive Console Data Register
RXCD_DATA bitfield length 8;      /* Received Data
RXCD_NODEID bitfield length 4;     /* Sender's Node ID
FILL_6 bitfield length 3 fill prefix PR8SS tag $$; /*
RXCD_BSY   bitfield mask;          /* Set=>Data has been received

```

```
end PR8SSRXCD_BITS;
PR8SSCACHEX BITS structure fill;
  FILL 7 Bitfield length 9 fill prefix PR8SS tag $$; /* Cache Invalidate Register
  CACHEX PFN bitfield length 21; /* Physical Page Number
end PR8SSCACHEX_BITS;
PR8SSBINID BITS structure fill; /* BI Node ID Register
  BINID NID bitfield length 4; /* BI Node ID this node
end PR8SSBINID_BITS;
end PR8SSDEF;
end_module $PR8SSDEF;
```

end
/*
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end
/*
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/*
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end
end

```
module $PSLDEF;
```

```
/*+
/* PROCESSOR STATUS LONGWORD MASK AND FIELD DEFINITIONS
/*-
```

```
aggregate PSLDEF union prefix PSL$;
```

```
PSLDEF BITS structure fill;
```

```

C bitfield mask;          /* Carry
V bitfield mask;          /* overflow
Z bitfield mask;          /* Zero
N bitfield mask;          /* Negative
TBIT bitfield mask;       /* TBIT ENABLE
IV bitfield mask;         /* INTEGER OVERFLOW
FU bitfield mask;         /* FLOATING UNDEFINED
DV bitfield mask;         /* DIVIDE BY ZERO
FILL_1 bitfield length 8 fill prefix PSLDEF tag $$; /*
IPL bitfield mask length 5; /* INTERRUPT PRIORITY LEVEL
FILL_2 bitfield fill prefix PSLDEF tag $$; /*
PRVMOD bitfield mask length 2; /* PREVIOUS PROCESSOR MODE
CURMOD bitfield mask length 2; /* CURRENT PROCESSOR MODE
IS bitfield mask;         /* INTERRUPT STACK BIT
FPD bitfield mask;        /* FIRST PART DONE
FILL_3 bitfield length 2 fill prefix PSLDEF tag $$; /* MUST BE ZERO
TP bitfield mask;         /* TRACE TRAP PENDING
CM bitfield mask;         /* COMPATIBILITY MODE BIT AND MASK

```

```
end PSLDEF_BITS;
```

```
/*
/* MODE SYMBOL DEFINITIONS
/*
```

```

constant(
  KERNEL          /* KERNEL MODE
  , EXEC          /* EXEC MODE
  , SUPER         /* SUPERVISOR MODE
  , USER          /* USER MODE
) equals 0 increment 1 prefix PSL tag $C;
```

```

constant SAFBITS equals
( (( - (PSL$M_TP!
  PSL$M_CM!
  PSL$M_FPD)@(-16)) ) - 1 )
prefix PSL tag $M;
```

```
end PSLDEF;
```

```
end_module $PSLDEF;
```


The image displays a dense grid of small, illegible text fragments and symbols, likely representing a large volume of data or code. Some larger, legible fragments are visible, such as "STARDEF L SDL", "OPCDEF SDL", "SCRDEF SDL", "SRMDEF SDL", "STARDEFMP SDL", and "STARDEFQZ SDL". The overall appearance is that of a highly compressed or corrupted document page.