MERIDIAN 1 TIPS

Author: Allen Russell
Date: January 17, 2002

OPT11C INITIALIZED DURING A DATADUMP AND WILL NOT COME BACK UP

pdt>reboot -1
PDT in Progress. Please Way

Meridian Small System Controller
Pre-Boot: 03 dev2.37
Flash Boot: NTDK34AA_r10 dev2.43
Reset Reason: 80, 4 - Reset due to CP invoked reset
SRAM: 128 kBytes
DRAM: 8 MBytes, speed=60 ns
Security device not installed.
Backup Flash: 1572 kBytes
Program Store: 32 MBytes
Flash Drive: 8 MBytes
Expansion board #1 installed.
Expansion board #2 not installed.
Ethernet MAC address: 00.00.75.45.C7.E3
PCMCIA card not installed in drive A.
PCMCIA card not installed in drive B.

*** Reminder: Install setup program can only be run from TTY0 ***

Executing power up self tests
Power up self test passed
DISKOS to be run.
Verifying Diskos.

Meridian 1 X11 System Software
Release : x112335
Created : Thu Apr 9 22:14:39 PDT 1998
Loaded : 20/9/00 13:16:05

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VxWorks 5.2
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SYS000 000808 000000 000000 000000 CPU 0
SYSDB RLS/ISS: 2335 LOADED FROM C: DATE/TIME: 27/8/2000 22:22:46 RECS: 44 SEQNO:
 790
SYSLOAD RELEASE 23.35
SYS0641 SYSL002020 002020 000733 00
SYS4311 TN 6 0 0 0
SYS4311 TN 6 0 0 1
SYS4311 TN 6 0 0 2
SYS4311 TN 6 0 0 3
SYS4311 TN 8 0 0 1
SYS4311 TN 8 0 0 3
SYS4311 TN 5 0 0 4
SYS4311 TN 5 0 0 5
SYS4311 TN 5 0 0 6
SYS4311 TN 5 0 0 7
SYS4311 TN 7 0 0 6
SYS4311 TN 5 0 0 8
SYS4311 TN 7 0 0 13

SYS4311 TN 10 0 0 0
SYS4311 TN 10 0 0 1
SYS4311 TN 12 0 0 3
SYS4311 TN 10 0 0 8
SYS4311 TN 10 0 0 9
SYS4311 TN 11 0 0 10
SYS4311 TN 11 0 0 13
SYS4311 TN 11 0 0 15
SYS4311 TN 12 0 0 13
SY

Meridian 1 X11 System Software
Release : x112335
Created : Thu Apr 9 22:14:39 PDT 1998
Loaded : 20/9/00 13:16:48
Last Restart: 20/9/00 13:16:13
Current Time: 20/9/00 13:16:13

VxWorks 5.2

(20/9/00 13:16:39.004) SRPT789 RST 0: Exception-caused task restart: TID=0x20429
da0, vec=0x2, pc=0x10d4634a
(20/9/00 13:16:39.022) SRPT786 RST 0: Task tSL1 being restarted
(20/9/00 13:16:40.972) SRPT782 RST 0: WARM START IN PROGRESS - Reason 36

Meridian Small System Controller
Pre-Boot: 03 dev2.37
Flash Boot: NTDK34AA_r10 dev2.43
Reset Reason: 80, 4 - Reset due to CP invoked reset
SRAM: 128 kBytes
DRAM: 8 MBytes, speed=60 ns
Security ID: 10028132 type: NT_STD
Backup Flash: 1572 kBytes
Program Store: 32 MBytes
Flash Drive: 8 MBytes
Expansion board #1 installed.
Expansion board #2 not installed.
Ethernet MAC address: 00.00.75.45.C7.E3
PCMCIA card not installed in drive A.
PCMCIA card not installed in drive B.

*** Reminder: Install setup program can only be run from TTY0 ***

Executing power up self tests
Power up self test passed
DISKOS to be run.
Verifying Diskos.

Meridian 1 X11 System Software
Release : x112335
Created : Thu Apr 9 22:14:39 PDT 1998
Loaded : 20/9/00 13:17:47

VxWorks 5.2

SYS000 000808 000000 000000 000000 CPU 0
SYSDB RLS/ISS: 2335 LOADED FROM C: DATE/TIME: 27/8/2000 22:22:46 RECS: 44 SEQNO: 790
SYSLOAD RELEASE 23.35
SYS0641 SYSL002020 002020 000733 00
SYS4311 TN 6 0 0 0
SYS4311 TN 6 0 0 1
SYS4311 TN 6 0 0 2
SYS4311 TN 6 0 0 3
SYS4311 TN 8 0 0 1
SYS4311 TN 8 0 0 3
SYS4311 TN 5 0 0 4
SYS4311 TN 5 0 0 5
SYS4311 TN 5 0 0 6
SYS4311 TN 5 0 0 7
SYS4311 TN 7 0 0 6
SYS4311 TN 5 0 0 8
SYS4311 TN 7 0 0 13
SYS4311 TN 10 0 0 0
SYS4311 TN 10 0 0 1
SYS4311 TN 12 0 0 3
SYS4311 TN 10 0 0 8

SYS4311 TN 10 0 0 9
SYS4311 TN 11 0 0 10
SYS4311 TN 11 0 0 13
SYS4311 TN 11 0 0 15
SY

Meridian 1 X11 System Software
Release : x112335
Created : Thu Apr 9 22:14:39 PDT 1998
Loaded : 20/9/00 13:18:28
Last Restart: 20/9/00 13:17:54
Current Time: 20/9/00 13:17:54

VxWorks 5.2

(20/9/00 13:18:19.177) BERR705 EXC 0: Bus Error in Task "tSL1" (0x20429da0)
SR=0x3004, PC=0x10d4634a, Addr=0x6366b588, SSW=0x0485
(20/9/00 13:18:19.181) SRPT789 RST 0: Exception-caused task restart: TID=0x20429da0, vec=0x2, pc=0x10d4634a

(20/9/00 13:18:19.200) SRPT786 RST 0: Task tSL1 being restarted
(20/9/00 13:18:20.162) SRPT782 RST 0: WARM START IN PROGRESS - Reason 36

Meridian Small System Controller
Pre-Boot: 03 dev2.37
Flash Boot: NTDK34AA_r10 dev2.43
Reset Reason: 80, 4 - Reset due to CP invoked reset
SRAM: 128 kBytes
DRAM: 8 MBytes, speed=60 ns
Security ID: 10028132 type: NT_STD
Backup Flash: 1572 kBytes
Program Store: 32 MBytes
Flash Drive: 8 MBytes
Expansion board #1 installed.
Expansion board #2 not installed.

Ethernet MAC address: 00.00.75.45.C7.E3
PCMCIA card not installed in drive A.
PCMCIA card not installed in drive B.

***** Reminder: Install setup program can only be run from TTY0 *****

Executing power up self tests
Power up self test passed
DISKOS to be run.
Verifying Diskos.

Meridian 1 X11 System Software
Release : x112335
Created : Thu Apr 9 22:14:39 PDT 1998
Loaded : 20/9/00 13:19:29

SYS000 000808 000000 000000 000000 CPU 0
SYSDB RLS/ISS: 2335 LOADED FROM C: DATE/TIME: 27/8/2000 22:22:46 RECS: 44 SEQNO: 790
SYSLOAD RELEASE 23.35
SYS0641 SYSL002020 002020 000733 00
SYS4311 TN 6 0 0 0
SYS4311 TN 6 0 0 1
SYS4311 TN 6 0 0 2
SYS4311 TN 6 0 0 3
SYS4311 TN 8 0 0 1
SYS4311 TN 8 0 0 3
SYS4311 TN 5 0 0 4
SYS4311 TN 5 0 0 5
SYS4311 TN 5 0 0 6
SYS4311 TN 5 0 0 7
SYS4311 TN 7 0 0 6
SYS4311 TN 5 0 0 8
SYS4311 TN 7 0 0 13
SYS4311 TN 10 0 0 0
SYS4311 TN 10 0 0 1
SYS4311 TN 12 0 0 3
SYS4311 TN 10 0 0 8
SYS4311 TN 10 0 0 9
SYS4311 TN 11 0 0 10
SYS4311 TN 11 0 0 13
SYS4311 TN 11 0 0 15
SYS4311 TN 12 0 0 13
SY

Meridian 1 X11 System Software
Release : x112335
Created : Thu Apr 9 22:14:39 PDT 1998
Loaded : 20/9/00 13:20:12
Last Restart: 20/9/00 13:19:36
Current Time: 20/9/00 13:19:36

(20/9/00 13:20:02.743) SRPT789 RST 0: Exception-caused task restart: TID=0x20429
da0, vec=0x2, pc=0x10d4634a
(20/9/00 13:20:02.761) SRPT786 RST 0: Task tSL1 being restarted
(20/9/00 13:20:03.717) SRPT782 RST 0: WARM START IN PROGRESS - Reason 36

ENTERING PDT AT THIS POINT WILL CAUSE SL1 TO STOP LOADING

sl1run bypassed.

PDT: login on /sio/1
Password:
PDT in Progress. Please Wait....

Done!

pdt>ll

Directory of 'c:/p/etc':

  SIZE   DATE   TIME   NAME
---------- ----------- -------- ------------
     1024   Feb-12-1996 03:46:02   .   <DIR>
     1024   Feb-12-1996 03:46:02   ..   <DIR>
      129   Feb-12-1996 03:51:10   STARTUPC

pdt>symload
Loading symbols from "c:/p/sl1/res.sym"

pdt>dosFsCheck
        use: dosFsCheck ("device name", verbose, cleanup)
        for verbose and cleanup use 1 for TRUE and 0 for FALSE
        eg: dosFsCheck "/u",1,0

pdt>dosFsCheck c:,1,1<----------dosFsCheck showed errors
Cluster multiply assigned = 0x1438 /U/RPT/ACCESS.LOG!
Error deleting file/dir: /U/RPT/ACCESS.LOG! 0x380007
Cluster multiply assigned = 0x1438 /U/RPT/ACCESS.LOG
CurrClust = 0x1437,fatEntry 0xffff
1 lost cluster(s)
value = -1 = 0xFFFFFFFF

pdt> (20/9/00 13:31:56.299) CIOD166 Cluster multiply assigned: /U/RPT/ACCESS.LOG
! - deleted
(20/9/00 13:31:56.302) CIOD166 Cluster multiply assigned: /U/RPT/ACCESS.LOG! - e
rror deleting file
(20/9/00 13:31:56.330) CIOD166 Cluster multiply assigned: /U/RPT/ACCESS.LOG - de
leted
(20/9/00 13:31:56.567) CIOD168 Clusters lost in the FAT = 1 - corrected

pdt>dosFsCheck c:,1,1<----------continued dosFsCheck utill it complained about the
                          DATABASE.REC, and it complained about cluster chain
                          being cropped, and file being longer than cluster
                          chain.
End of Cluster Chain is 0x0000, should be 0xffff - file cropped /U/DB/DATABASE.R
EC
(20/9/00 13:32:34.414) CIOD165 Cluster incorrectly terminated: /U/DB/DATABASE.RE
C - cropped
value = -1 = 0xFFFFFFFF
pdt>dosFsCheck c:,1,1
File size longer than cluster chain: /U/DB/DATABASE.REC

value = -1 = 0xFFFFFFFF
pdt> (20/9/00 13:33:16.545) CIOD167 File size longer than cluster chain: /U/DB/D
ATABASE.REC

pdt>dosFsClustChainFree<----------I used this one time
value = 1 = 0x1

pdt>dosFsCheck c:,1,1<----------Then the dosFsCheck came back good
value = 0 = 0x0

pdt>sl1run<---------I started the sl1
[Initialising Orbix Error handling]
[Constructing a new Proxy Factory Table]
Unable to open /p/data/VERSION
Loading MAT script files.....

Meridian Small System Controller
Pre-Boot: 03   dev2.37
Flash Boot: NTDK34AA_r10 dev2.43
Reset Reason: 80, 4 - Reset due to CP invoked reset
SRAM: 128 kBytes
DRAM: 8 MBytes, speed=60 ns
Security ID: 10028132   type: NT_STD
Backup Flash: 1572 kBytes
Program Store: 32 MBytes
Flash Drive: 8 MBytes
Expansion board #1 installed.
Expansion board #2 not installed.
Ethernet MAC address: 00.00.75.45.C7.E3
PCMCIA card not installed in drive A.
PCMCIA card not installed in drive B.

*** Reminder: Install setup program can only be run from TTY0 ***

Executing power up self tests
Power up self test passed
DISKOS to be run.
Verifying Diskos.

Meridian 1 X11 System Software
Release   : x112335
Created   : Thu Apr 9 22:14:39 PDT 1998
Loaded   : 20/9/00 13:37:03

VxWorks 5.2

SYS000 000808 000000 000000 000000 CPU 0
SYSDB RLS/ISS: 2335 LOADED FROM C: DATE/TIME: 27/8/2000 01:00:46 RECS: 2 SEQNO:
789
SYSLOAD RELEASE 23.35
SYS0641 SYSL002020 002020 000733 00
SYS4461
PROBLEMS FOUND.

DONE

```
PDT:  login on /sio/1
Password:
PDT in Progress. Please Wait....

Done!
pdt>cd c:/u/db
pdt>ll

Directory of 'c:/u/db':

   SIZE         DATE       TIME         NAME
----------   -----------  --------   ------------
      1024   Feb-12-1996  03:46:02   .                    <DIR>
      1024   Feb-12-1996  03:46:02   ..                   <DIR>
      1024   Sep-20-2000  13:21:28   CONFIG.REC
       148   Feb-22-1996  00:59:42   INET.DB
      1024   Aug-27-2000  01:01:06   CONFIG.BAK
     44032   Aug-27-2000  01:01:06   DATABASE.BAK
    333008   Sep-20-2000  13:38:56   AAL.DAT
       467   Sep-20-2000  13:37:24   VIEWCFG.TMP
      5024   Sep-20-2000  13:22:02   DATABASE.REC<----------It booted with default
         0   Aug-27-2000  22:22:54   SMPSERV.DB                database
         6   Aug-27-2000  01:00:54   SMPCONF.BAK
         0   Aug-27-2000  01:01:04   SMPSERV.BAK
        31   Aug-27-2000  22:22:58   EPTFLAG.DB
         0   Aug-27-2000  22:22:58   EPTDELTA.DB
         6   Aug-27-2000  22:22:52   SMPCONF.DB
     44032   Sep-20-2000  13:15:26   DATABASE.ARR
      1024   Sep-20-2000  13:21:12   CONFIG.ARR

pdt>cp database.bak database.rec<----I copied the .bak to the .rec
   44032 bytes copied
pdt>cp config.bak config.rec<-------I copied the .bak to the .rec
    1024 bytes copied

pdt>reboot -1<--------------rebooted again and this time it booted back into service.
PDT in Progress. Please Wait~

Meridian Small System Controller
Pre-Boot: 03   dev2.37
Flash Boot: NTDK34AA_r10  dev2.43
Reset Reason: 80, 4 - Reset due to CP invoked reset
SRAM: 128 kBytes
DRAM: 8 MBytes, speed=60 ns
Security ID: 10028132     type: NT_STD
Backup Flash: 1572 kBytes
Program Store: 32 MBytes
Flash Drive: 8 MBytes
Expansion board #1 installed.
Expansion board #2 not installed.
Ethernet MAC address: 00.00.75.45.C7.E3
PCMCIA card not installed in drive A.
PCMCIA card not installed in drive B.

*** Reminder: Install setup program can only be run from TTY0 ***

Executing power up self tests
Power up self test passed
DISKOS to be run.
Verifying Diskos.
```

Meridian 1 X11 System Software
Release : x112335
Created : Thu Apr 9 22:14:39 PDT 1998
Loaded : 20/9/00 13:40:13

VxWorks 5.2

SYS000 000808 000000 000000 000000 CPU 0
SYSDB RLS/ISS: 2335 LOADED FROM C: DATE/TIME: 27/8/2000 01:00:46 RECS: 44 SEQNO:
789
SYSLOAD RELEASE 23.35
DONE
INI000 00000000 13 40 46 00000000 00000000 00000000 00000000 ? 00000000
SRPT752 INI 0: INI completed in 10 seconds

DSET000 DOWN LOAD 100 0 9 2 0 0 0 87855

INI002 00000088

INI003 000000B0 000000B4 000000B8 000000CE

XMI002 XFIL 1

TTY 01 SCH MTC BUG 13:40
OVL111 IDLE 0
>
XMI002 11 XMLC

XMI002 12 XMLC

XMI002 13 XMLC

XMI002 14 XMLC

XMI002 15 XMLC

ESDA002 9 13:40:58 20/09/2000

CSA003 9 13:40:58 20/09/2000

XMI002 16 XMLC

XMI002 5 XDLC

XMI002 7 XMLC

XMI002 8 XMLC

XMI002 10 MMAIL

XMI002 6 XDLC

TTY 01 SCH MTC BUG 13:41
OVL111 IDLE 0
>
XMI002 2 XUT

```
XMI002 3  XUT

XMI002 4  XUT
>
.
TTY 01 SCH MTC BUG   13:41
OVL111 IDLE   0
>loii admin2
PASS?

 WARNING: THE PROGRAMS AND DATA STORED ON THIS SYSTEM ARE LICENSED TO
 OR ARE THE PROPERTY OF NT/BNR AND ARE LAWFULLY AVAILABLE ONLY TO
 AUTHORIZED USERS FOR APPROVED PURPOSES. UNAUTHORIZED ACCESS TO ANY
 PROGRAM OR DATA ON SYSTEM IS NOT PERMITTED. THIS SYSTEM MAY BE
 MONITORED AT ANY TIME FOR OPERATIONAL REASONS. THEREFORE, IF YOU
 ARE NOT AN AUTHORIZED USER, DO NOT ATTEMPT TO LOGIN.

.
TTY #01 LOGGED IN ADMIN2 13:41  20/9/2000

>ld 22
PT2000
MARP NOT ACTIVATED


REQ  slt
TNS      200    LEFT    43    USED   157
AGNT     300    LEFT   296    USED     4
ACDN     300    LEFT   296    USED     4
AST      100    LEFT   100    USED     0<--------system back to original state
AML       16    LEFT    15    USED     1
RAN CON    12    LEFT    12    USED     0
RAN RTE  9999    LEFT  9999    USED     0
MUS CON   100    LEFT   100    USED     0
MOPT 00000
KEY1 45716604
KEY2 41463617
KEY3 67273512


REQ  ****
>
OVL000
>ld 43
EDD000


.dat
DATABASE   ISSUE    DATE(d/m/y)/TIME     SIZE(recs) SEQNO
Main       2335 27/08/2000 at 01:00:46       44     789
Secondary  2335 27/08/2000 at 01:00:46       44     789
IntBackup  2335 27/08/2000 at 01:00:46       44     789
PCMCIA     database not accessible.
Current external backup is on PCMCIA drive B

.
EDD000


.edd

DB SEQ NUM = 790
```

CONFIG
PHYSICAL MAP
BCS TEMPLATE
PBX TEMPLATE
CUST
ICI TBL
ACUST
CLID
ROUTE
TENANT
  CUST 0
LTN TN
LTN LNK
TN
SCL
ESN 00
NCTL
ACD
CPK
ASNCH
AML / ELAN
VAS
BG-TIME
BG-CAT
ARIES
SYSP
XPEC
XTDT
FTC
MCAD
FCAD
FDCT
FFC
LAPW
CPND
CPND NM
SPECIFIC DATA
  ALARM_MGT
CHECKING

RECORD COUNT = 0044

Starting internal database backup
to internal backup drive
Synching drives
Updating internal backup
Backing up c:/p/sl1/direct.rec
Backing up c:/p/disk.sys
Backing up c:/p/os/diskoscc.sym
Backing up c:/p/sl1/ovlrescc.sym
Backing up c:/p/sl1/sl1rescc.sym
Backing up c:/u/db/database.rec
Backing up c:/u/db/config.rec
Backing up c:/u/db/inet.db
Backing up c:/u/patch/reten/reten.pch
Backing up c:/u/patch/p10521.11c
Backing up c:/u/patch/p10530.p
Backing up c:/u/patch/p10538.p
Backing up c:/u/patch/p10557.p
Backing up c:/u/patch/p10574.p
Backing up c:/u/patch/p10522.p
Internal backup complete
All files are backed up!

DATADUMP COMPLETE

.

By Allen Russell

WRITING TO THE PROTECTED PARTITION, FOR WHEN YOU HAVE TO LETS SAY REPLACE THE PSDL.REC FILE, ETC.....

```
PDT:  login on /sio/1
Password:
PDT in Progress. Please Wait....
Done!
pdt>scsiWriteCmdu   (CPP=drUnprotectP)<--enable the ability to write to the protected partition
value = 2 = 0x2
pdt>cd /p/sl1<-------------------------------------go to the protected partition
pdt>ll<-----------------------------------------------list out the files in the directory
Directory of '/p/sl1':
  SIZE         DATE       TIME        NAME
----------   -----------  --------   ------------
       0   Mar-20-1998  18:22:44   .                   <DIR>
       0   Mar-20-1998  18:22:44   ..                  <DIR>
 4933572   Mar-20-1998  18:26:22   OVLRES
16482784   Mar-20-1998  18:36:10   SL1RES
    1024   Mar-20-1998  18:36:38   DIRECT.REC
  580532   Mar-20-1998  18:36:52   RES.SYM
 2748416   Mar-20-1998  18:40:26   PSDL.REC <-------------------file you are replacing
    1024   Mar-20-1998  18:40:32   CONFIG.REC
   38726   Mar-20-1998  18:42:14   OVLRESCC.SYM
   38726   Mar-20-1998  18:42:16   SL1RESCC.SYM
pdt>rename psdl.rec psdl.old
pdt>cp /cd0/psdl.rec /p/sl1/psdl.rec <------copies the new psdl.rec to the correct location
 2748416 bytes copied
pdt>scsiReadCmdu <-----(CPP=drProtectP)-----disable the ability to write to the protected partition
pdt>ll <--------verify that the file is the correct filename and byte size
Directory of '/p/sl1':
  SIZE         DATE       TIME        NAME
----------   -----------  --------   ------------
       0   Mar-20-1998  18:22:44   .                   <DIR>
       0   Mar-20-1998  18:22:44   ..                  <DIR>
 4933572   Mar-20-1998  18:26:22   OVLRES
16482784   Mar-20-1998  18:36:10   SL1RES
    1024   Mar-20-1998  18:36:38   DIRECT.REC
  580532   Mar-20-1998  18:36:52   RES.SYM
 2748416   Mar-20-1998  19:49:28   PSDL.REC <------------this is the new file psdl.rec
    1024   Mar-20-1998  18:40:32   CONFIG.REC
   38726   Mar-20-1998  18:42:14   OVLRESCC.SYM
   38726   Mar-20-1998  18:42:16   SL1RESCC.SYM
pdt>reboot -1 <------------reboot the system and ensure that the system does a download on the
      init if it does not, you may have to set up a forced download in ld 97 and then do a manual init.
      (see below after the sysload)


SYS700 02 - ROM created on Thu Oct 9 19:16:50 PDT 199w
SYS702 64 - Total Flash size (in megs), all banks populated
SYS702 32 - DRAM size (in megs) - Banks 1 3      populated
SYS703 0DE8 - Self Tests completed
SYS700 04 - Selecting Boot Source

Meridian 1 X11 ROM System Software
Release     : x112246
Created     : Thu Oct 9 19:16:50 PDT 1997

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U.S. Government users subject to "Restricted Rights" under FAR & DFAR.
Starting at 0x4100020...
Meridian 1 X11 System Software
Release : x112246
Created : Thu Oct 9 19:17:38 PDT 1997
Loaded : 20/3/98 19:55:31 from '/flash/flashos'

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U.S. Government users subject to "Restricted Rights" under FAR & DFAR.
(Boot ROM) SRPT4507 CP SINGLE MODE: both switches = MAINT
Check that one or both CP Norm/Maint switches are in Norm Mode (Up)
(Boot ROM) SRPT720 ROM OS 1: Cold Start. Running on CP 1
PDT Ready!
Loading SL1 .(Boot ROM) SRPT728 ROM OS 1: Loading 'diskos' from /flash/flashos
(20/3/98 19:55:41.351) SRPT730 OS 1: Cold Start
Release: x112246
Created: Thu Oct 9 19:17:38 PDT 1997

SYS000 000400 000000 000000 000000 CPU 1
SYSDB RLS/ISS: 2246 DATE/TIME: 20/3/1998 19:51:38 RECS: 475 SEQNO: 651
SYSLOAD RELEASE 22.46
DONE
INI000 00000000 19 56 04 00000000 00000000 00000000 00000000 1 ? ? 00000000
XMI101 4
XMI101 12
XMI101 20
XMI101 36
XMI101 40
SRPT752 INI 1: INI completed in 93 seconds
XMI101 44
XMI101 52
XMI101 60
XMI101 68
XMI101 72
XMI101 76
XMI101 84
XMI101 88
XMI101 4
XMI101 12
DSET000 DOWN LOAD 0 0 0 0 0 0 0 191502
INI014 000000F0 000000F1 000000F2 000000F8 000000F9 000000FA
INI002 0000008E 0000008F 0000008A 0000008B 00000080 00000081 00000082 00000083 00000086
INI002 00000087 00000088 00000089
INI007 00000050 00000051 00000052 00000053 00000054 00000055 00000056 00000057 00000058
INI007 00000059 0000005A 0000005B 0000006E 0000006F
INI109
ERR225 0 7
OVL111 IDLE 0
>logg
PASS?
DROL000 DAILY ROUTINE BEGIN
TDS LD34 BEGIN 19:58 20/3/1998
DROL001 DAILY ROUTINE END
TDS LD34 END 19:58 20/3/1998
DROL000 DAILY ROUTINE BEGIN
MTRK LD36 BEGIN 19:58 20/3/1998

FOR MANUAL INIT WITH FORCED DOWNLOAD

REQ chg
TYPE sysp
INTN
CONT
CRCF
FLSH
TOHV
TDP
TID
TDPO
TPF
P10R
P12R
P20R
FDLC all f c
FDLC

pdt>reboot 1

Warm Start begun - reason 20

Meridian 1 X11 System Software
Release   : x112246
Created   : Thu Oct 9 19:17:38 PDT 1997
Loaded   : 20/3/98 20:00:03 from '/flash/flashos'
Last Restart: 20/3/98 19:55:41
Current Time: 20/3/98 19:55:41

VxWorks 5.1.1

(20/3/98 19:59:45.652) SRPT780 RST 1: MANUAL INIT IN PROGRESS
(20/3/98 19:59:45.700) SRPT782 RST 1: WARM START IN PROGRESS - Reason 20
(20/3/98 20:00:10.331) SRPT731 OS 1: Warm Start
Release: x112246
Created: Thu Oct 9 19:17:38 PDT 1997
Last Cold Start: 20/3/98 19:55:41 (from '/flash/flashos')
Last Warm Start: 20/3/98 19:55:41 (total: 1)

CRI00000028
INI000 00000002 20 00 20 00000000 00000000 00000000 00000000 1 ? 1 0000006F<----------manual init
SRPT752 INI 1: INI completed in 107 seconds

OVL111 IDLE   0
>

By Allen Russell

pdt>

The machine must be reloaded immediately to complete the procedure-DO NOT DATA DUMP FIRST

pdt>reboot -1

AFTER REBOOT LD 137 LOOKS NORMAL

.stat
IOP 0 ENABLED (STANDBY: S/W STATUS) IODUC
IOP 1 ENABLED (ACTIVE) IODUC
CMDU 0 ENABLED (STANDBY)
CMDU 1 ENABLED (ACTIVE)
RDUN ENABLED
ELNK ENABLED
SDEV 1 OK (KC VALID)
.**

By Allen Russell

INI000 0008 WHEN ATTENDANT TRIES TO TRANSFER ANY CALL TO AN EXTERNAL NUMBER (Option 11c 23.18)

pdt>
pdt>Warm Start begun - reason 36
interrupt: Error changing SL1 priority

*** OS RESTART ***

Meridian 1 X11 System Software
Release   : x112318
Created   : Fri Oct 31 19:19:51 PST 1997
Loaded   : 8/12/01 20:04:06
Last Restart: 8/12/01 18:55:54
Current Time: 8/12/01 19:26:08

VxWorks 5.2

ssdrvAudit: Found unused block which is not erased: 3-26-06
Initialize Network Interface.
Network Interface is up.
Host   : PRIMARY_ENET
IP Address   : 137.135.128.253
Sub-netmask : 255.255.254.0

Loading 'rpteng.db' from "c:/p/rpt/rpteng.db"
Executing startup script "c:/p/etc/startupc".
# EDITION AF02, SL1LIB SBASHYAM.2 (97/07/11 13:09:22) -- CLOSED
# Empty startup file for Option 11C use in the field.
putenv("BYPASS_MOB_BERR=OFF");
value = 0 = 0x0
cd "c:/p/etc"
value = 0 = 0x0
(8/12/01 20:03:58.158) SRPT789 RST 0: Exception-caused task restart: TID=0x204291b0, vec=0x2, pc=0x0

Done executing startup script "c:/p/etc/startupc".
(8/12/01 20:03:58.177) SRPT786 RST 0: Task tSL1 being restarted
(8/12/01 20:03:58.179) SRPT790 RST 0: SL-1 requested warm start - INIT reason 0x00008000
(8/12/01 20:03:59.135) SRPT782 RST 0: WARM START IN PROGRESS - Reason 36
PDT: Unable to preserve macro library contents.
[Initialising Orbix Error handling]
[Constructing a new Proxy Factory Table]
..... restoring doneLoading MAT script files.....
Start SNMP agent
Processed c:/p/data/view.cfg

INI000 00000008 20 04 20 00000000 00000000 00000000 00000000 ? 00000000
.
Every time the attendant (2250 console) would try to transfer an internal
or external call to an outside number the system would INI000 0008*invalid op code*
>
OVL111 044 BKGD

TTY 00 SCH MTC BUG   20:04

```
PDT:  login on /sio/0
Password:
PDT in Progress. Please Wait....

Done!
pdt>rdtail 20
...rd : showing 20 records up to the newest record (rec 475)
  457 : (8/12/01 20:03:58.154) BERR705 EXC 0: Bus Error in Task "tSL1" (0x204291b0)
        SR=0x3004, PC=0x0, Addr=0x0, SSW=0x05e6←there should never be “0x0” for PC or Addr
  458 : (8/12/01 20:03:58.158) SRPT789 RST 0: Exception-caused task restart: TID=0x204291b0, vec=0x2, pc=0x0
  459 : (8/12/01 20:03:58.177) SRPT786 RST 0: Task tSL1 being restarted
  460 : (8/12/01 20:03:58.179) SRPT790 RST 0: SL-1 requested warm start - INIT reason 0x00008000
  461 : (8/12/01 20:03:59.445) BUG7068 SWD: invalid TID: 0x204291b0
  462 : (8/12/01 20:03:59.135) SRPT782 RST 0: WARM START IN PROGRESS - Reason 36
  463 : (8/12/01 20:04:08.302) COM008 Ethernet driver: unit 0 is being reset
  464 : (8/12/01 20:04:08.304) COM000 Ethernet driver: device unit 0 is initialized OK.
  465 : (8/12/01 20:04:08.309) COM001 Ethernet driver: unit 0 is being restarted
  466 : (8/12/01 20:04:08.311) COM001 Ethernet driver: unit 0 is being restarted
  467 : (8/12/01 20:04:08.459) COM001 Ethernet driver: unit 0 is being restarted
  468 : (8/12/01 20:04:08.619) COM001 Ethernet driver: unit 0 is being restarted
  469 : (8/12/01 20:04:08.779) COM001 Ethernet driver: unit 0 is being restarted
  470 : (8/12/01 20:04:08.939) COM001 Ethernet driver: unit 0 is being restarted
  471 : (8/12/01 20:04:08.099) COM001 Ethernet driver: unit 0 is being restarted
  472 : (8/12/01 20:04:09.068) SRPT731 OS 0: Warm Start
        Release:  x112318
        Created:  Fri Oct 31 19:19:51 PST 1997
        Last Cold Start: 8/12/01 18:55:54 (from 'flash ROM')
        Last Warm Start: 8/12/01 19:26:08 (total: 3)
  473 : (8/12/01 20:04:09.118) COM001 Ethernet driver: unit 0 is being restarted
  474 : (8/12/01 20:04:20.675) SRPT754 INI due to System Restart
        Previous INI:           8/12/01 19:26:21
        INIs since cold start  ( 8/12/01 18:56:09): 4
  475 : (8/12/01 20:04:37.134) SRPT752 INI 0: INI completed in 18 seconds
value = 0 = 0x0

pdt>rdgo 457
  457 : (8/12/01 20:03:58.154) BERR705 EXC 0: Bus Error in Task "tSL1" (0x204291b0)
        SR=0x3004, PC=0x0, Addr=0x0, SSW=0x05e6
value = 0 = 0x0

pdt>symload
Loading symbols from "c:/p/sl1/res.sym"
pdt>rds 1

... rd : record 457

(8/12/01 20:03:58.154) BERR705 EXC 0: Bus Error in Task "tSL1" (0x204291b0)
        SR=0x3004, PC=0x0, Addr=0x0, SSW=0x05e6
Registers (A0-A7, D0-D7):
 20350004 2035009c 2002bd44 2002bd44 2002be0c 20350000 1031ef28 2002bccc
 00000000 00000000 000be645 00000000 000d2949 00000000 00000001 00000000
Return Address Stack:
 0001660e
Stack (base = 0x1031ef30):
 000d2949 00000444 00000003 00000003 3ff36f39 3ff36f41 00000444 000d27d4
 0004991a 000d2830 00049911 000d2a68 0004958d 000492e7 00000190 000d2bfa
 0004951c 000d2c56 00049513 000d2d5f 0004944a 000492e7 0004991a 0004951c
 000d27d4 000d2bfa 00000000 00000000 00000000 2002bec0 2002bd90 10b72a7c
 00000444 00000190 00000000 00000444 00000190 000492e7 000d3275 00048d77
 00000000 00052ec2 2002bec0 2002bd90 10b70d08 00000006 00000000 000be645
 3ff36f6e 2002bdb8 10b706f0 00000000 000d2949 00000000 00000001 00000000
 2002bec0 2002be0c 3ff36f64 2002be0c 10b6fae0 00000000 000be645 00000000
 000be645 3ff36f64 2002be0c 00000026 00000000 00000026 2002bdfc 10b6ecc6
```

PC=0x0 and Addr=0x0 indicates that the information passed to the stack
was not correct, intern the RAS(return address stack) information is invalid or corrupt
on Option 11c you should remove all patches from service and out them from
memory. Then run verifyModules to check the integrity of the software. If any
of them fail you must reinstall software and if that does not correct the problem
the software daughter board must be replaced.

pdt>poos 0
Are you sure (y/n)? [y] y
Patch 0 has been deactivated successfully.

pdt>poos 1
Are you sure (y/n)? [y] y
Patch 1 has been deactivated successfully.

pdt>poos 2
Are you sure (y/n)? [y] y
Patch 2 has been deactivated successfully.

pdt>poos 3
Are you sure (y/n)? [y] y
Patch 3 has been deactivated successfully.

pdt>pout 0
Patch 0 has been removed successfully.

pdt>pout 1
Patch 1 has been removed successfully.

pdt>pout 2
Patch 2 has been removed successfully.

pdt>pout 3
Patch 3 has been removed successfully.

pdt>pstat
System has no loaded patches.
pdt>

verifyModules -**NOTE**(ALL PATCHES MUST BE poos AND pout BEFORE RUNNING verifyModules)
you MUST receive CRC OK for all modules, if any module fails CRC then you must reinstall
software, and if that does not solve the problem the software daughter board must be replaced

pdt>lkup verify
_verifyModules 0x100af37e text

pdt>verifyModules

Crc OK for Module auxres:

Crc OK for Module diskos:

Crc Failed for Module sl1res:
MIB Crc Value : 587c1239 Crc Value : 9a8cc0d0←sl1res failed CRC

Crc OK for Module ovlres:

ERROR
value = 7 = 0x7

pdt>verifyModules

Crc OK for Module auxres:

Crc OK for Module diskos:

Crc Failed for Module sl1res:
MIB Crc Value : 587c1239 Crc Value : 9a8cc0d0←sl1res failed CRC

TIM000 20:18 8/12/2001 CPU 0

Crc OK for Module ovlres:

ERROR
value = 7 = 0x7
pdt>

By Allen Russell

HOW TO WRITE OUT ESN097 CORRUPTION
(1213 IS CORRUPTED)

LD 90
REQ prt
CUST 0
FEAT net
TRAN ac1
TYPE npa

NPA

NPA 1200
RLI 3
DENY 976
SDRR DENY CODES = 1
ITEI NONE

NPA 1203
RLI 3
DENY 976
SDRR DENY CODES = 1
ITEI NONE

NPA 1211
RLI 3
DENY 976
SDRR DENY CODES = 1
ITEI NONE

NPA 1212
RLI 13
DENY 976
SDRR DENY CODES = 1
ITEI NONE
STOPPED AT 1212
ESN097 <--------1213 MAY BE CORRUPTED
NPA
***
REQ
REQ prt
CUST 0
FEAT net
TRAN ac1
TYPE npa
NPA 1213

ESN097 <------1213 IS CORRUPT

ESN073
NPA
***
REQ
REQ prt
CUST 0
FEAT net
TRAN ac1
TYPE npa

NPA 1214

NPA 1214<-----1214 IS O.K.

NPA 1214
RLI 3
DENY 976
SDRR DENY CODES = 1
ITEI NONE

PPOINTER .P_ESN_DATA_BLK0 Points to ESN data blk
ESN_DATA_BLK_PTR (136) nil if no ESN this cust

---

pdt>dcp 0<---------DISPLAY CUSTOMER POINTER

CUST 0 P 05CCDE U 774C18 AUX 05CDE9 ICI 000000 PREXL 000000 BGD 000000
pdt>su ←------SUPERUSER MODE
->136 ←--------DECIMAL VALUE
value = 136 = 0x88 ←-----136 DECIMAL CONVERTS TO 88 HEX
->0x5ccde + 0x88 ←------THIS ADDS 88 HEX TO THE CUSTOMER POINTER
->value = 411854 = 0x5cd66
->exit
pdt>p 5cd66<---------THIS IS THE ESN_DATA_BLK_PTR
0005CD66 : 00085632
pdt>p 85632 b
AC1 AC2 SDRR LOC RLI DMI FCAS
00085632 : 00000083 000**85EBC** 000**86F24** 000**856C5** 000**8A900** 000**862BA** 000**864EF** 000**862CD**
CDP
0008563A : 000**865BF** 00000000 000841DE
pdt>p 85ebc b<-----PRINT 1213 JUST LIKE CDNXPTR STRUCTURE
(1st digit)
00085EBC : 000007FE 000**85ED1** 00086744 00086912 00086A0E 00086AF5 00086BC7 00086CAE
00085EC4 : 00086D17 00086DE9 00086ED0
pdt>p 85ed1 b
(2nd digit)
00085ED1 : 000003FC 00004033 000**85EE6** 00085FCD 000860B4 0008619B 00086354 0008643B
00085ED9 : 00086522 0008665D 00004004
pdt>p 85ee6 b
(3rd digit)
00085EE6 : 000007FE 000**85EFB** 00085F10 00085F25 00085F3A 00085F4F 00085F64 00085F79
00085EEE : 00085F8E 00085FA3 00085FB8
pdt>p 85efb b
(4th digit)
00085EFB : 00000000 000070B2 0000700D 0000**700E** 0000700F 00007010 00007011 00007012
00085F03 : 00007013 00007014 00007004
pdt>
pdt>w 85efe
00085EFE : 0000700E /0<----WROTE IT TO ZERO---NOW 1213 CAN BE REPROGRAMMED
pdt>sl1input

By Allen Russell

HOW TO EDIT A FILE ON THE "C" MACHINES WHILE DIALED INTO THE MACHINE

(IE.....FOR EXAMPLE THE CNIB.DB FILE SHOWS THAT THE CNI'S ARE 3 PORT CNI'S AND THEY ARE ACTUALLY 2 PORT CNI'S. HERE IS HOW TO CORRECT THE PROBLEM.)

```
pdt>machTypeShow
from direct.rec: System type is - Option 81(C)/CP4
from os:         CP4 [Northern Telecom Inc.]
value = 45 = 0x2D
pdt>cd /u/db/hi
pdt>
pdt>cat cnib.db

/u/db/hi/cnib.db

RELEASE 18
cnib 0 12 3
cnib 0 13 3
cnib 1 12 3
cnib 1 13 3
END
pdt>
pdt>cat > cnib.arr  <----------------------cat > filename    is how to edit a file.
RELEASE 18                                                  DO NOT EDIT the existing file as it will
cnib 0 12 2                                                 open the file for editing but will also delete
cnib 0 13 2                                                 the contents of the file. So it is best to create
cnib 1 12 2                                                 a new file then just copy it to existing filename.
cnib 1 13 2                                                 When you are finished editing the file use ^D
^D                                                          to stop editing and close the file.
pdt>
pdt>ll

Directory of '/u/db/hi':

   SIZE         DATE       TIME         NAME
----------   ------------  --------   ------------
       512   Mar-20-2000  11:37:08   .                    <DIR>
       512   Mar-20-2000  11:37:08   ..                   <DIR>
         0   Jan-20-2001  00:00:34   ETH.TMP
        75   Jan-03-2001  15:52:08   CNIB299.DB
        87   Jan-03-2001  15:52:10   CNIB365.DB
        87   Jan-03-2001  15:52:10   CNIB365C.DB
        31   Jan-20-2001  00:00:28   CP.DB
        27   Jan-03-2001  15:52:12   CP299.DB
       256   Jan-20-2001  00:00:28   HI.DB
       200   Jan-03-2001  16:02:36   INET.DB
        63   Jan-20-2001  00:00:30   CNIB.DB
        33   Jan-03-2001  15:52:14   IOP299.DB
       203   Jan-20-2001  00:00:30   IPB.DB
       249   Jan-03-2001  15:52:16   IPB299.DB
       361   Jan-03-2001  15:52:16   IPB365.DB
       381   Jan-03-2001  15:52:16   IPB365C.DB
        33   Jan-20-2001  00:00:32   IOP.DB
        34   Jan-03-2001  16:23:54   IOP.BAK
        63   Jan-20-2001  14:20:34   CNIB.ARR
        20   Jan-20-2001  00:00:32   SIMM.DB

pdt>cat cnib.arr

/u/db/hi/cnib.arr

RELEASE 18
cnib 0 12 2
```

cnib 0 13 2
cnib 1 12 2
cnib 1 13 2
END
pdt>cp cnib.arr cnib.db
pdt>
pdt> exit

****The machine must be reloaded immediately to complete the procedure-DO NOT DATA DUMP FIRST .****

By Allen Russell

HOW TO REMOVE OVERLAY 45 FROM DROL
(OPTION 11C 25.30)

```
>ld 22
PT2000
REQ  prt
TYPE ovly
  OVLY
  SID  1002
  BKGD 044
  PBXH 01
  TODR 01
  DROL 030 034 036 037 038 044 045 135 137
  MULTI_USER ON
  pdt>su
->0x95f1 + 0x49<--------------95f1 IS THE CONFIG POINTER
                               ADD 49 HEX TO THIS VALUE
value = 38458 = 0x963a
->exit
pdt>p 963a
0000963A : 0000C1D1
pdt>p 963a 7
                                   OVERLAYS THAT ARE IN DROL
                    45-30      61-46       77-62       93-78     109-94    125-110
0000963A :    0000C1D1 00000000 00000000 00000000 00000000 00000000
                   135-126
00009640 :     00000A00
                 C              1              D              1
          1  1  0  0     0  0  0  1     1  1  0  1     0  0  0  1
         45 44 43 42    41 40 39 38    37 36 35 34    33 32 31 30
pdt>w 963a
0000963A : 0000C1D1 /41d1
pdt>sl1input
>loii
PASS?
.
TTY #01 LOGGED IN 13:39  12/7/2001
>ld 22
PT2000
REQ  prt
TYPE ovly
OVLY
SID  1002
BKGD 044
PBXH 01
TODR 01
DROL 030 034 036 037 038 044 135 137
MULTI_USER ON
```

By Allen Russell

CCR/LINK AML GOING UP AND DOWN ALL DAY

(csa103, csa104 and csa107)

```
PDT:  login on /sio/1
Password:
PDT in Progress. Please Wait....

Done!

pdt>machTypeShow
System type is - Option 61C/CP3
value = 15 = 0xF

pdt>sl1input

OVL111 IDLE   0
>loii admin2
PASS?

 WARNING: THE PROGRAMS AND DATA STORED ON THIS SYSTEM ARE LICENSED TO
 OR ARE THE PROPERTY OF NT/BNR AND ARE LAWFULLY AVAILABLE ONLY TO
 AUTHORIZED USERS FOR APPROVED PURPOSES. UNAUTHORIZED ACCESS TO ANY
 PROGRAM OR DATA ON SYSTEM IS NOT PERMITTED. THIS SYSTEM MAY BE
 MONITORED AT ANY TIME FOR OPERATIONAL REASONS. THEREFORE, IF YOU
 ARE NOT AN AUTHORIZED USER, DO NOT ATTEMPT TO LOGIN.

TTY #03 LOGGED IN ADMIN2 18:55   3/12/2001

>ld 22
PT2000

REQ  prt
TYPE cinv
 0 15 NT5D10JA   05 NNTM1832C5JN  CP
 1 15 NT5D10JA   05 NNTM1832C5J7  CP
 0 12 NT6D65AB   02 NNTM1832C68X  CNI
 1 12 NT6D65AB   02 NNTM1832C792  CNI
CMDU0 NT6D64AB   07 NNTM60GAVMC6
CMDU1 NT6D64AB   07 NNTM60GAT33G
 0 17 NT5D61AB   07 NNTM60GAVMC6  IOP
 1 17 NT5D61AB   07 NNTM60GAT33G  IOP

REQ  issp

VERSION 2511
RELEASE 23
ISSUE 55 +

IN-SERVICE PATCHES : 3
PAT#  PRS      PATCH REF #      NAME            DATE      FILENAME
00    bv30069  mplr10778_cp3    t2t_xfer        0/0/0     mpl10778.cp3
02    bv81318  mplr14522        sleepy set      0/0/0     p14522a2.cp3
03    mp11488  tbd              dset msb        0/0/0     p14522b2.cp3


>ld 22
PT2000

REQ  prt
TYPE vhst
%%  89%
%
```

% DTC001
%
%

VHST[HST] find csa

CSA003 15 11:38:20 3/12/2001

CSA104 15, 11:38:20 3/12/2001

CSA107 15 11 38 20 0 0 0

CSA104 15, 11:38:20 3/12/2001

CSA107 15 11 38 20 0 0 0

ADAN AML 15
CTYP MSDL
DNUM 10
PORT 1
DES CCR_LINK
BPS 19200
PARM RS232 DCE
IADR 003
RADR 001
T1 04
T2 000<----default is 10, a setting of 0 will cause the above csa messages
N1 128
N2 08
K 7

T2 0-(10)-255 Maximum Time allowed without a frame being exchanged. cls-7

By Allen Russell

BUG5943

"BUG5943" AND "EST TIMER REC" OVER AND OVER, NO CALLS
CAN BE PLACED IN OR OUT ON THE ISDN SPANS, CENTRAL OFFICE IS AN
OFFBRAND NAME CENTRAL OFFICE
DCH 0=PRIMARY, LOOP 30
DCH1=BACKUP, LOOP 31

ld 96
BACKGROUND SESSION 0 ABORTED.
DCH000
.dis dch 0
.
DCH: 0 RLS CONFIRM TIME: 20:42:28 17/12/2001
.dis dch 1
.
DCH: 0 RLS CONFIRM TIME: 20:42:39 17/12/2001
.stat serv
DCH 000 SERV : DSBL
DCH 001 SERV : DSBL
.****
>ld 60
BACKGROUND SESSION 0 ABORTED.
DTI000
.disl 30
OK
.disl 31
OK
.enll 30
PRI000 30 15
PRI000 30 15
DTA023 30
OK
.
DCH: 0 EST CONFIRM TIME: 20:43:14 17/12/2001

(AT THIS POINT CALLS CAN BE PLACED IN OR OUT)

.enll 31
PRI000 31 15
PRI000 31 15
DTA023 31
OK
.
DCH: 1 EST CONFIRM TIME: 20:43:32 17/12/2001

DCH: 0 EST TIMER REC TIME: 20:43:01 17/12/2001

BUG5943
BUG5943 : 0 0
BUG5943 +   005ADE5D 00DDF1DC 00DE1590 00DDB1A8 00DD788E
BUG5943 + 00550E02 005511C8 00552672 0055821D 00557E49
BUG5943 + 00557D7A 005569E4 0054B24A 004F0BD4

(AT THIS POINT CALLS CANNOT BE PLACED IN OR OUT)

!
>err bug5943
>
BUG5943

The PRI maintenance timeout event is not compatible with the PRI Maintenance state. Message is observed indicating that the d-channel went down for a moment and is attempting a recovery.

```
DCH: 0  EST TIMER REC  TIME: 20:43:30 17/12/2001

BUG5943
BUG5943  : 0 0
BUG5943  +   005ADE5D 00DDF1DC 00DE1590 00DDB1A8 00DD788E
BUG5943 + 00550E02 005511C8 00552672 0055821D 00557E49
BUG5943  + 00557D7A 005569E4 0054B24A 004F0BD4

****
>ld 96
BACKGROUND SESSION 0 ABORTED.
DCH000
.
DCH: 0  EST TIMER REC  TIME: 20:43:38 17/12/2001

BUG5943
BUG5943  : 0 0
BUG5943  +   005ADE5D 00DDF1DC 00DE1590 00DDB1A8 00DD788E
BUG5943 + 00550E02 005511C8 00552672 0055821D 00557E49
BUG5943  + 00557D7A 005569E4 0054B24A 004F0BD4
.stat dch
DCH 000 : OPER      EST   SERV  AUTO BKUP 001 DES : local_pri
DCH 001 : OPER      EST   STBY  AUTO PRIM 000 DES : local_pri
.
DCH: 0  EST TIMER REC  TIME: 20:43:46 17/12/2001

BUG5943
BUG5943  : 0 0
BUG5943  +   005ADE5D 00DDF1DC 00DE1590 00DDB1A8 00DD788E
BUG5943 + 00550E02 005511C8 00552672 0055821D 00557E49
BUG5943  + 00557D7A 005569E4 0054B24A 004F0BD4
.
DCH: 0  EST TIMER REC  TIME: 20:43:54 17/12/2001

BUG5943
BUG5943  : 0 0
BUG5943  +   005ADE5D 00DDF1DC 00DE1590 00DDB1A8 00DD788E
BUG5943 + 00550E02 005511C8 00552672 0055821D 00557E49
BUG5943  + 00557D7A 005569E4 0054B24A 004F0BD4

DCH: 0  EST TIMER REC  TIME: 20:44:02 17/12/2001

BUG5943
BUG5943  : 0 0
BUG5943  +   005ADE5D 00DDF1DC 00DE1590 00DDB1A8 00DD788E
BUG5943 + 00550E02 005511C8 00552672 0055821D 00557E49
BUG5943  + 00557D7A 005569E4 0054B24A 004F0BD4

DCH000
.stat dch
DCH 000 : OPER      EST   SERV  AUTO BKUP 001 DES : local_pri
DCH 001 : OPER      EST   STBY  AUTO PRIM 000 DES : local_pri
.****
DCH: 0  EST TIMER REC  TIME: 20:44:18 17/12/2001

BUG5943
BUG5943  : 0 0
```

```
BUG5943  +   005ADE5D 00DDF1DC 00DE1590 00DDB1A8 00DD788E
BUG5943 + 00550E02 005511C8 00552672 0055821D 00557E49
BUG5943  + 00557D7A 005569E4 0054B24A 004F0BD4

>ld 60


.stat 30

PRI*  TRK  LOOP 30 - ENBL
FFMT/LCMT/YALMT:  ESF/B8Z/FDL
SERVICE RESTORE: YES
YEL ALM PROCESS: YES
ALARM STATUS : NO ALARM
CH 01 - IDLE DID  3VCE  *         CH 02 - IDLE DID  3VCE  *
CH 03 - IDLE DID  3VCE  *         CH 04 - IDLE DID  3VCE  *
CH 05 - IDLE DID  3VCE  *         CH 06 - IDLE DID  3VCE  *
CH 07 - IDLE DID  3VCE  *         CH 08 - IDLE DID  3VCE  *
CH 09 - IDLE DID  3VCE  *         CH 10 - IDLE DID  3VCE  *
CH 11 - IDLE DID  3VCE  *         CH 12 - IDLE DID  3VCE  *
CH 13 - IDLE DID  3VCE  *         CH 14 - IDLE DID  3VCE  *
CH 15 - IDLE DID  3VCE  *         CH 16 - IDLE DID  3VCE  *
CH 17 - IDLE DID  3VCE  *         CH 18 - IDLE DID  3VCE  *
CH 19 - IDLE DID  3VCE  *         CH 20 - IDLE DID  3VCE  *
CH 21 - IDLE DID  3VCE  *         CH 22 - IDLE DID  3VCE  *
CH 23 - IDLE DID  3VCE  *         CH 24 - DCH 0
.stat 31

PRI*  TRK  LOOP 31 - ENBL
FFMT/LCMT/YALMT:  ESF/B8Z/FDL
SERVICE RESTORE: YES
YEL ALM PROCESS: YES
ALARM STATUS : NO ALARM
CH 01 - IDLE DID  3VCE  *         CH 02 - IDLE DID  3VCE  *
CH 03 - IDLE DID  3VCE  *         CH 04 - IDLE DID  3VCE  *
CH 05 - IDLE DID  3VCE  *         CH 06 - IDLE DID  3VCE  *
CH 07 - IDLE DID  3VCE  *         CH 08 - IDLE DID  3VCE  *
CH 09 - IDLE DID  3VCE  *         CH 10 - IDLE DID  3VCE  *
CH 11 - IDLE DID  3VCE  *         CH 12 - IDLE DID  3VCE  *
CH 13 - IDLE DID  3VCE  *         CH 14 - IDLE DID  3VCE  *
CH 15 - IDLE DID  3VCE  *         CH 16 - IDLE DID  3VCE  *
CH 17 - IDLE DID  3VCE  *         CH 18 - IDLE DID  3VCE  *
CH 19 - IDLE DID  3VCE  *         CH 20 - IDLE DID  3VCE  *
CH 21 - IDLE DID  3VCE  *         CH 22 - IDLE DID  3VCE  *
CH 23 - IDLE DID  3VCE  *         CH 24 - BKUP DCH 1
.
DCH: 0  EST TIMER REC  TIME: 20:44:24 17/12/2001

BUG5943
BUG5943  : 0 0
BUG5943  +   005ADE5D 00DDF1DC 00DE1590 00DDB1A8 00DD788E
BUG5943 + 00550E02 005511C8 00552672 0055821D 00557E49
BUG5943  + 00557D7A 005569E4 0054B24A 004F0BD4
****
>ld 96
.plog dch 0
.
DCH: 0 MAINT CONFIRM  TIME: 20:48:00
COUNTER VALUE
  25      34

.plog dch 0
.
```

DCH: 0 MAINT CONFIRM TIME: 20:54:44
PLOG CLEARED

DCH: 0 EST TIMER REC TIME: 20:48:04 17/12/2001

BUG5943
BUG5943 : 0 0
BUG5943 +   005ADE5D 00DDF1DC 00DE1590 00DDB1A8 00DD788E
BUG5943 + 00550E02 005511C8 00552672 0055821D 00557E49
BUG5943 + 00557D7A 005569E4 0054B24A 004F0BD4
.plog dch 0
.
DCH: 0 MAINT CONFIRM TIME: 20:48:06
COUNTER VALUE
25 1
****

PLOG DCH x Print protocol error log-on DCH x.
Protocol errors can be the result of PRI transmission problems and re-start procedures, or a protocol mismatch with the far end. The PLOG counters are cleared after the PLOG is printed or the DCH card is enabled.
pra-18
When a protocol counter overflows, the PLOG is printed automatically and the counters are cleared. The counter is also cleared when the D-channel is disabled.
Response is:
DCH : xx MAINT CONFIRM TIME: hh:mm:ss
01 cc
11 cc
23 cc
Where:
- **x = DCH number**
- **xxxx = system real time (in hexadecimal)**
- **yy = maintenance indication primitive**
- **zz = maintenance indication task ID**
- **01 02 03....16 = protocol error counters as listed below**
- **cc = protocol error counts.Alphabetical list of commands**
  Only the non-zero counters are output. Protocol error counters:
- **01 = Count of missing PRI handshakes**
- **02 = Count of peer initiated re-establishment link**
- **03 = Count of unsuccessful retransmit N200 of SABME**
- **04 = Count of unsuccessful retransmit N200 of DISC**
- **05 = Count of N(R) errors**
- **06 = Count of I fields with length greater than N201**
- **07 = Count of undefined frames**
- **08 = Count of I fields but not allowed**
- **09 = Count of FRMR frames**
- **10 = Count of CRC error frames**
- **11 = Count of REJ frames**
- **12 = Count of messages with less than 4 octets**
- **13 = Count of undefined protocol discriminators**
- **14 = Count of undefined message types**
- **15 = Count of messages missing mandatory information elements**
- **16 = Count of messages with undefined information elements**
- **17 = Count of layer 1 reports of no external clock being received**
- **18 = Count of aborted frames**
- **19 = Count of SABME frames received with incorrect C/R bit**

- 20 = Count of supervisory frames received with F = 1
- 21 = Count of unsolicited DM responses with F = 1
- 22 = Count of unsolicited UA responses with F = 1
- 23 = Count of unsolicited UA responses with F = 0
- 24 = Count of DM responses with F = 0
- 25 = Number of times that no response was received from the far end after N200 retransmissions of RR or RNR
- 26 = Count of frames received with incorrect header length
- 27 = Number of times owner receiver busy condition was entered
- 28 = Number of times peer receiver busy condition was entered
- 29 = Count of messages with call reference length greater than 2.
- 30 = Count of optional IEs received with invalid contents
- 31 = Count of mandatory IEs received with invalid contents
- 32 = Count of messages received with IE's not ordered correctly
- 33 = Count of IEs which were repeated in received messages, but are only allowed to appear once per message
- 34 = Count of IEs received with length exceeding the specified maximum length for the IE
- 35 = Count of layer 3 messages from far-end with invalid call reference flag value of 0.
- 36 = Count of layer 3 messages from far-end with invalid call reference flag value of 1.
- 37 = Count of layer 3 messages from far-end with invalid global call reference.
- 38 = Count of layer 3 messages from SL-1 that are too short.
- 39 = Count of layer 3 messages from SL-1 containing an undefined message type.
- 40 = Count of layer 3 messages from SL-1 missing mandatory IE(s).
- 41 = Count of layer 3 messages from SL-1 containing unsupported IE(s).
- 42 = Count of layer 3 messages from SL-1 containing invalid operational IE(s).
- 43 = Count of layer 3 messages from SL-1 containing invalid mandatory IE(s).
- 44 = Count of layer 3 messages from SL-1 with IE(s) out of order.
- 45 = Count of layer 3 messages from SL-1 containing repeated IE(s).
- 46 = Count of layer 3 messages from far-end with an invalid call reference length.
- 47 = Count of layer 3 messages from SL-1 with an invalid call reference flag value of 0.
- 48 = Count of layer 3 messages from SL-1 with an invalid call reference flag value of 1.
- 49 = Count of layer 3 messages from SL-1 with an invalid global call reference.
- 50 = Count of unexpected layer 3 messages received from the far-end.
- 51 = Count of unexpected layer 3 messages received from the SL-1.
- 52 = Count of unexpected layer 3 timer expirations.
- 53 = Count of protocol messages received when D-channel is not in service or waiting for a Service

Acknowledge message.

```
>ld 22
REQ prt
TYPE adan dch 0


ADAN     PRIM DCH 0
  BDCH 1
  CTYP MSDL
  GRP  0
  DNUM 13
  PORT 0
  DES  local_pri
  USR  PRI
  DCHL 30
  OTBF 128
  PARM RS422  DTE
  DRAT 64KC
  CLOK EXT
  IFC  NI2
    ISDN_MCNT 300
  CLID OPT0
  CO_TYPE  STD
  SIDE USR
  CNEG 1
  RLS  ID  1
  RCAP ND2 COLP
  PRI  INTERFACE ID
  041  2
  002  3
  003  4
  T310 120
  T200 3
  T203 10
  N200 3
  N201 260
  K    7
****

ld 17
BACKGROUND SESSION 0 ABORTED.
CFN000
MEM AVAIL: (U/P): 11412113    USED U P: 1372667 305008    TOT: 13089788
DISK SPACE NEEDED: 684 KBYTES
2MB BACKUP DISKETTE(S) NEEDED: 1  (PROJECTED LD43 - BKO)
DCH  AVAIL:   253    USED:     2    TOT:   255
AML  AVAIL:    15    USED:     1    TOT:    16

REQ  chg
TYPE adan

ADAN chg dch 0
CTYP MSDL
GRP 0
DNUM 13
PORT 0
DES  local_pri
DES
USR
IFC
```

```
CO TYPE
  ISDN_MCNT
CLID
DCHL
PRI
OTBF
DRAT
SIDE
CNEG
RLS
RCAP
TIMR yes
T310
INC_T306
OUT_T306
LAPD yes
T23
T200
T203
N200 8
N201
K

MEM AVAIL: (U/P): 11412113    USED U P: 1372667 305008    TOT: 13089788
DISK SPACE NEEDED: 684 KBYTES
2MB BACKUP DISKETTE(S) NEEDED: 1  (PROJECTED LD43 - BKO)
DCH  AVAIL:   253    USED:     2    TOT:   255
AML  AVAIL:    15    USED:     1    TOT:    16
****
ld 60
BACKGROUND SESSION 0 ABORTED.
DTI000
.enll 30

PRI000 30 15

PRI000 30 15

DTA023 30

OK

DCH: 0  EST CONFIRM  TIME: 20:54:30 17/12/2001

.enll 31

PRI000 31 15

PRI000 31 15

DTA023 31

OK
.
DCH: 1  EST CONFIRM  TIME: 20:55:56 17/12/2001
****
```

(WITH N200=8 NO MORE DCH: 0 EST TIMER REC TIME: 20:44:24 17/12/2001)
(AT THIS POINT CALLS CAN NOW BE PLACED IN AND OUT)

```
ld 96
```

.plog dch 0
.
DCH: 0 MAINT CONFIRM TIME: 20:54:44
COUNTER VALUE
PLOG CLEARED
.plog dch 1
.
DCH: 1 MAINT CONFIRM TIME: 20:54:48
COUNTER VALUE
PLOG CLEARED
.pcon dch 0
.
 DCH: 0 LINK PARAM CONFIRM TIME: 20:59:16
 MSDL : 13
 PORT : 0
 INTERFACE : NI2
 OPER MODE : RS422/DTE/USR/64000/EXT CLK
 T200 : 3
 T203 : 10
 CREF LENGTH : 2 (NOT CHECKED)
 EARLY NR CHECK : NO
 SHORT HDR ERR : NO
 IMMEDIATE ACK : NO
 MAX B-CHNL : 120
 INI CLR CALL : U25 U19 U17 U15 U12 U11 U9 U6 U3 U2 U1
 RLS CLR CALL : U25 U19 U17 U15 U12 U11 U9 U8 U7 U6 U4 U3 U2 U1
 INI TMREXP : 64
 T310 : 120
 TABLE ID : 128 (NI2)
 N200 : 8
 N201 : 260
 K : 7
 ISDN MCNT: 300
.pcon dch 1
.
 DCH: 1 LINK PARAM CONFIRM TIME: 20:59:22
 MSDL : 13
 PORT : 1
 INTERFACE : NI2
 OPER MODE : RS422/DTE/USR/64000/EXT CLK
 T200 : 3
 T203 : 10
 CREF LENGTH : 2 (NOT CHECKED)
 EARLY NR CHECK : NO
 SHORT HDR ERR : NO
 IMMEDIATE ACK : NO
 MAX B-CHNL : 120
 INI CLR CALL : U25 U19 U17 U15 U12 U11 U9 U6 U3 U2 U1
 RLS CLR CALL : U25 U19 U17 U15 U12 U11 U9 U8 U7 U6 U4 U3 U2 U1
 INI TMREXP : 64
 T310 : 120
 TABLE ID : 128 (NI2)
 N200 : 8
 N201 : 260
 K : 7
 ISDN MCNT: 300

DCH 1 UIPE_OMSG CC_SETUP_REQ REF 00000075 CH 3 21 TOD 21:03:26
PROGRESS: ORIGINATING END IS NOT ISDN
CALLING #:2905052 NUM PLAN: E164

CALLED #:4036725 NUM PLAN: E164

DCH 1 UIPE_IMSG CC_PROCEED_IND REF 00000075 CH 3 21 TOD 21:03:28

DCH 1 UIPE_IMSG CC_ALERT_IND REF 00000075 CH 3 21 TOD 21:03:28
PROGRESS: INBAND INFO OR PATTERN IS AVAIL

DCH 1 UIPE_IMSG CC_SETUP_CONF REF 00000075 CH 3 21 TOD 21:03:28

DCH 1 UIPE_OMSG CC_DISC_REQ REF 00000075 CH 3 21 TOD 21:03:48
CAUSE: #16 - NORMAL CALL CLEARING

DCH 1 UIPE_IMSG CC_RELEASE_IND REF 00000075 CH 3 21 TOD 21:03:48

.dis msgi 0
.dis msgo 0
.stat mon
DCH MON ON
DCH 000 BKUP 001 : MSGI - DSBL MSGO - DSBL (UIPE)

.stat dch
DCH 000 : OPER EST STBY AUTO BKUP 001 DES : local_pri
DCH 001 : OPER EST SERV AUTO PRIM 000 DES : local_pri

.plog dch 0
.
DCH: 0 MAINT CONFIRM TIME: 21:04:34
COUNTER VALUE
PLOG CLEARED

.plog dch 1
.
DCH: 1 MAINT CONFIRM TIME: 21:04:36
COUNTER VALUE
PLOG CLEARED
****
LOGO

By Allen Russell

3VCE-3.1KHZ AUDIO

INBOUND ISDN CALL TO M-1 THEN OVER DTI ROUTE TO FAX SERVER GOING TO ATTENDANT VIA INTERCEPT. DTI ROUTE TO FAX SERVER NEEDS TO HAVE DSEL=3VCE TO ENSURE ALL CALLS THAT ARRIVE TO THE M-1 VIA ISDN CAN BE PASSED OVER THE DTI ROUTE TO THE FAX SERVER.

BAD CALL

DCH 7 IMSG SETUP REF 00008A86 CH 26 16 TOD 8:54:12 CK 7456990B
HEADER:2F 03 00 2A 08 02 0A 86 05
BCAP:04 03 90 90 A2<----OCTET 3 IS 90, 90 BREAKS DOWN TO 3.1KHZ AUDIO
CHID:18 04 E9 83 83 10 IF DSEL=3VCE THEN THIS CALL WILL TANDEM TO THE
NSF :20 03 00 62 80 DTI ROUTE.
CLNG:6C 0C 21 83 08 0A 02 06 08 05 04 08 02 01
CLED:70 05 A1 05 02 07 02

DCH 7 OMSG CALLPROC REF 00008A86 CH 26 16 TOD 8:54:12 CK 74569913
HEADER:01 03 00 0B 08 02 8A 86 02
CHID:18 04 E9 83 83 10

DCH 7 OMSG ALERT REF 00008A86 CH 26 16 TOD 8:54:12 CK 7456A173
HEADER:01 03 00 0B 08 02 8A 86 01
CHID:18 04 E9 83 83 10

DCH 7 OMSG CONNECT REF 00008A86 CH 26 16 TOD 8:54:12 CK 7456A325
HEADER:01 03 00 05 08 02 8A 86 07

DCH 7 IMSG CONN ACK REF 00008A86 CH 26 16 TOD 8:54:12 CK 7456A39E
HEADER:2F 03 00 05 08 02 0A 86 0F

This call went to the ATT via intercept, while other calls would complete to the dn5272

By Allen Russell

HOW TO REMOVE A DTI LOOP IN AN OPTION 11C THAT HAS BEEN PROGRAMMED FOR TMDI CARD (NTRB21) BUT IS ACTUALLY A DTI/PRI CARD (NTAK09) VIA REGULAR SERVICE CHANGE

```
REQ  PRT
TYPE CEQU

CEQU
  MPED 8D
  SUPL  000  004  008  012
        016  032  036  040
        044  048  064  068
        072
  XCT   000
  CONF  029  030  031  062
        094  095

  DLOP  NUM DCH FRM T1TE TRSH
   TRK  001 24  D4  AMI  DG2  0    00



>LD 20

PT0000
REQ: PRT
TYPE: TNB
TN   1
CUST
DATE
PAGE
DES

SCH0802<--All data has been removed



>LD 60
DTI000
.STAT 1

DTI TRK  LOOP 1 - DSBL
FFMT/LCMT/YALMT:  D4/ AMI/DG2<--Loop is disabled
****


LD 73
DDB000
MEM AVAIL: (U/P): 1233560    USED U P: 101953 40742    TOT: 1376255
SCH5066

REQ  PRT
TYPE DDB

CLKN 1
PREF 1
SREF FREE RUN

TRSH 00
RALM 3
```

BIPC 2
LFAC 3
BIPV 3 2
SRTK 5 30
SRNT 15 3
LFAL 17 511
SRIM 1
SRMM 2
ICS

REQ CHG
TYPE DDB
CLKN X1<---Loop removed from DDB
TRSH
ICS

MEM AVAIL: (U/P): 1233560   USED U P: 101953 40742   TOT: 1376255
SCH5066
LD 96
DCH000
.STAT TMDI
.   <--Shows no TMDI
.DIS TMDI 1<--excepts the DIS TMDI command
.
BUG5397
BUG5397 :
BUG5397 +   1064C354 11505D6C 11505634 11503C6A 11503BB8
BUG5397 + 114E8C2A 114E8A98 1092B638 1092A458 10929D0A
BUG5397 + 10928188 1092561A 10E0660E 10E05E94 10E05B3C
.DIS TMDI 1 ALL<--TMDI card completely disabled
.
BUG5397
BUG5397 :
BUG5397 +   1064C354 11505D6C 11505634 11503C6A 11503BB8
BUG5397 + 114E8C2A 114E8A98 1092B638 1092A458 10929D0A
BUG5397 + 10928188 1092561A 10E0660E 10E05F80 10E05B3C
****

LD 17
CFN000
MEM AVAIL: (U/P): 1233560   USED U P: 101953 40742   TOT: 1376255
SCH5066

TMDI D-CHANNELS AVAIL: 0   USED: 0   TOT: 0
DCH AVAIL: 80   USED: 0   TOT: 80
AML AVAIL: 15   USED: 1   TOT: 16
REQ CHG
TYPE CEQU
TDS
CONF
DLOP X1

SCH5589<--Still cannot remove loop
DLOP ****

REQ CHG
TYPE CEQU
TDS
CONF
DLOP 1 24 ESF
MODE PRI <--Simple way to remove without using debug is to change MODE to PRI

TMDI NO and say NO to TMDI
LCMT
YALM
TRSH
DLOP

MEM AVAIL: (U/P): 1233818 USED U P: 101947 40490 TOT: 1376255
SCH5066
****

REQ CHG
TYPE CEQU
TDS
CONF
DLOP X1 <--Remove the loop normally
DLOP

MEM AVAIL: (U/P): 1234053 USED U P: 101798 40404 TOT: 1376255
REQ
****
LD 43
EDD000
.EDD

By Allen Russell

HOW TO CHANGE TID

(This is an example from 2111/25.30, and it is only for a temporary workaround to get a Meridian Mail system to come up in an emergency, ie... like while you are waiting for a new set of software for Option 11c system due to some type of outage, where you have used a temporary set of software that does not actually belong to the site. The system will not data dump when this setting has been modified.)

```
>ld 22
PT2000
MARP NOT ACTIVATED

REQ  tid

SECURITY ID:10159663
AUX ID     :10159663

pdt>p 99a4 4
                2nd 1st     4th 3rd    6th  5th    8th  7th
000099A4 : 0000B0B1 0000B5B1 0000B6B9 0000B3B6 <=10159663
pdt>p 99f0 4                                          SECURITY ID

000099F0 : 0000B0B1 0000B5B1 0000B6B9 0000B3B6 <=10159663
                                                      AUX ID

pdt>w 99a4 (cr)
000099A4 : 0000B0B1 /b0b1 (space)<=This would change the
000099A5 : 0000B5B1 /b2b3 (space)     Security ID to 10324422
000099A6 : 0000B6B9 /b4b4 (space)
000099A7 : 0000B3B6 /b2b2 (cr)
pdt>w 99f0 (cr)
000099F0 : 0000B0B1 /b0b1 (space)<=This would change the Aux ID
000099F1 : 0000B5B1 /b2b3 (space)     to 10324422
000099F2 : 0000B6B9 /b4b4 (space)
000099F3 : 0000B3B6 /b2b2 (cr)
pdt>sl1input
>ld 22
PT2000
MARP NOT ACTIVATED


REQ  tid

SECURITY ID:10324422
AUX ID     :10324422
```

By Allen Russell

IODUC CORRUPTION CAUSED BY AN UPGRADE
THE IOP IN ONE OF THE CORES IS NOT RESPONDING

```
>ld 137
CIOD000
.stat
IOP  0 DISABLED  (No Response)<----------------SYMPTOM
IOP-CMDU
IOP  1 ENABLED   (ACTIVE)  IODUC
CMDU 0 ENABLED   (STANDBY)
CMDU 1 ENABLED   (ACTIVE)
RDUN   ENABLED
ELNK   ENABLED
SDEV 1 OK (KC VALID)
pdt>cat iop.db

/u/db/hi/iop.db

RELEASE 18
iop 1 16
iop 0 17<-------------------PROBLEM
END


pdt>cat > iop.ar
RELEASE 18
iop 1 16
iop 0 16
END
^D
pdt>
pdt>ll

Directory of '/u/db/hi':

  SIZE         DATE       TIME         NAME
----------   -----------  --------   ------------
       512   Nov-30-2027  00:02:12   .                    <DIR>
       512   Nov-30-2027  00:02:12   ..                   <DIR>
       148   Mar-21-2001  17:10:24   INET.DB
         0   Mar-21-2001  19:34:02   ETH.TMP
        33   Mar-21-2001  20:09:30   IOP.AR
        33   Mar-21-2001  19:34:00   IOP.DB
       255   Mar-21-2001  19:33:56   HI.DB
        20   Mar-21-2001  19:34:00   SIMM.DB
        39   Mar-21-2001  19:33:58   CNIB.DB
        71   Mar-21-2001  19:33:58   IPB.DB
        31   Mar-21-2001  19:33:56   CP.DB

pdt>cp iop.db iop.bk
     33 bytes copied
pdt>cp iop.ar iop.db
     33 bytes copied
pdt>cat iop.db

/u/db/hi/iop.db

RELEASE 18
iop 1 16
iop 0 16
END
pdt>
```

The machine must be reloaded immediately to complete the procedure-DO NOT DATA DUMP FIRST

pdt>reboot -1

AFTER REBOOT LD 137 LOOKS NORMAL

.stat
IOP 0 ENABLED (STANDBY: S/W STATUS) IODUC
IOP 1 ENABLED (ACTIVE) IODUC
CMDU 0 ENABLED (STANDBY)
CMDU 1 ENABLED (ACTIVE)
RDUN ENABLED
ELNK ENABLED
SDEV 1 OK (KC VALID)
.**

By Allen Russell

NFCR CORRUPTION
(WORD 187 AND WORD 165 OF THE CDB)

```
>ld 21
PT1000

REQ: prt
TYPE: fcr
TYPE FCR_DATA
CUST 0

TYPE FCR_DATA
CUST 00
NFCR YES
  MAXT 10<--If you try to change this value to anything the system will go into a warmstart loop and
  OCB1 255  not recover
  OCB2 255
  OCB3 255
IDCA NO
```

This is from the customer data block structure:

```
                                    22993 1 2 INTEGER   NFCR_ACTIVE     (165,7,1),
                                    22994 1 2           FCR_NO_TREES    (165,8,8),
                                    23008 1 2           NFCR_PTR        (187),
```

```
pdt>dcp 0


CUST 0 P 064813 U 1ADD0A AUX 064A9F ICI 000000 PREXL 000000 BGD 064BA7
pdt>su ------ =super user mode
->165 ------- =decimal value
value = 165 = 0xa5 ---- =165 decimal converts to a5 hex
->187 -------- =decimal value
value = 187 = 0xbb ----- =187 decimal converts to bb hex
->
->0x64813 + 0xa5 ----- =this adds the customer pointer and a5 (hex) to get word 165 of the cdb
value = 411832 = 0x648b8
->0x64813 + 0xbb ----- =this adds the customer pointer and bb (hex) to get word 187 of the cdb
value = 411854 = 0x648ce
->
->exit
pdt>w 648ce

000648CE : 0006491E /0
pdt>w 648b8

000648B8 : 0000FF00 /0
pdt>sl1input

TTY 00 SCH MTC BUG   10:09
OVL111 IDLE   0
 loii sprint
PASS?

 WARNING: THE PROGRAMS AND DATA STORED ON THIS SYSTEM ARE LICENSED TO
 OR ARE THE PROPERTY OF NT/BNR AND ARE LAWFULLY AVAILABLE ONLY TO
 AUTHORIZED USERS FOR APPROVED PURPOSES. UNAUTHORIZED ACCESS TO ANY
 PROGRAM OR DATA ON SYSTEM IS NOT PERMITTED. THIS SYSTEM MAY BE
```

MONITORED AT ANY TIME FOR OPERATIONAL REASONS. THEREFORE, IF YOU
ARE NOT AN AUTHORIZED USER, DO NOT ATTEMPT TO LOGIN.

.
TTY #00 LOGGED IN SPRINT 10:09 20/1/2001

>ld 43
EDD000
.edd

DB SEQ NUM = 33
CONFIG
PHYSICAL MAP
BCS TEMPLATE
PBX TEMPLATE
CUST
ACUST
CLID
ROUTE
DAPC
LTN TN
LTN LNK
TN
SCL
ESN 00
NCTL
ACD
CPK
DIGITAL
DTI
ASNCH
AML / ELAN
VAS
TRSH
BG-TIME
BG-CAT
DCH
PRI
ARIES
FDL
SYSP
XPEC
XTDT
FTC
MCAD
FCAD
FDCT
FFC
LAPW
MSDL/MISP BLK
SOCKET ID BLK
DTI PDCA
CPND
SPECIFIC DATA
  ALARM_MGT
CHECKING

RECORD COUNT = 0077

Starting internal database backup
to internal backup drive
Synching drives
Updating internal backup

Backing up c:/p/sl1/direct.rec
Backing up c:/p/disk.sys
Backing up c:/p/os/diskoscc.sym
Backing up c:/p/sl1/ovlrescc.sym
Backing up c:/p/sl1/sl1rescc.sym
Backing up c:/u/db/database.rec
Backing up c:/u/db/config.rec
Backing up c:/u/db/inet.db
Backing up c:/u/db/zone.db
Backing up c:/u/db/eset1.db
Backing up c:/u/db/eset2.db
Backing up c:/u/db/iprem.db
Backing up c:/u/db/surv.db
Backing up c:/u/patch/reten/reten.pch
Backing up c:/u/patch/p13794a.p
Backing up c:/u/patch/p13794b.p
Backing up c:/u/patch/p13774.p
Backing up c:/u/patch/p13736.p
Backing up c:/u/patch/p13735.p
Backing up c:/u/patch/p13734.p
Backing up c:/u/patch/p13816a.p
Backing up c:/u/patch/p13816b.p
Backing up c:/u/patch/p13817a.p
Backing up c:/u/patch/p13817b.p
Backing up c:/u/patch/p13010a1.11c
Backing up c:/u/patch/p13010b1.11c
Backing up c:/u/patch/p12800a3.11c
Backing up c:/u/patch/p12800b3.11c
Internal backup complete
All files are backed up!
DATADUMP COMPLETE

.
EDD000

.****
OVL000
>ld 15
CDB000
MEM AVAIL: (U/P): 854290 USED U P: 464820 57145 TOT: 1376255
DISK RECS AVAIL: 435
REQ: chg
TYPE: fcr

TYPE FCR_DATA
CUST 0
NFCR yes
  MAXT 10<--It can now be changed with no problems
  OCB1
  OCB2
  OCB3
IDCA

MEM AVAIL: (U/P): 854150 USED U P: 464820 57285 TOT: 1376255
DISK RECS AVAIL: 435
REQ:
****

OVL000
>ld 21
PT1000

```
REQ: prt
TYPE: fcr
TYPE FCR_DATA
CUST 0

TYPE FCR_DATA
CUST 00
NFCR YES
  MAXT 10
  OCB1 255
  OCB2 255
  OCB3 255
IDCA NO

REQ: ****
>
OVL000
>ld 15
CDB000
MEM AVAIL: (U/P): 854150    USED U P: 464820 57285    TOT: 1376255
DISK RECS AVAIL: 435
REQ: chg
TYPE: fcr

TYPE FCR_DATA
CUST 0
NFCR yes
  MAXT 12
  OCB1
  OCB2
  OCB3
IDCA

MEM AVAIL: (U/P): 854148    USED U P: 464820 57287    TOT: 1376255
DISK RECS AVAIL: 435
REQ:
****

OVL000
>ld 43
EDD000


.edd

DB SEQ NUM = 34
CONFIG
PHYSICAL MAP
BCS TEMPLATE
PBX TEMPLATE
CUST
ACUST
CLID
ROUTE
DAPC
LTN TN
LTN LNK
TN
SCL
ESN  00
NCTL
ACD
CPK
```

DIGITAL
DTI
ASNCH
AML / ELAN
VAS
TRSH
BG-TIME
BG-CAT
DCH
PRI
ARIES
FDL
SYSP
XPEC
XTDT
FTC
MCAD
FCAD
FDCT
FFC
LAPW
MSDL/MISP BLK
SOCKET ID BLK
DTI PDCA
CPND
SPECIFIC DATA
  ALARM_MGT
CHECKING

RECORD COUNT = 0077

Starting internal database backup
to internal backup drive
Synching drives
Updating internal backup
Backing up c:/p/sl1/direct.rec
Backing up c:/p/disk.sys
Backing up c:/p/os/diskoscc.sym
Backing up c:/p/sl1/ovlrescc.sym
Backing up c:/p/sl1/sl1rescc.sym
Backing up c:/u/db/database.rec
Backing up c:/u/db/config.rec
Backing up c:/u/db/inet.db
Backing up c:/u/db/zone.db
Backing up c:/u/db/eset1.db
Backing up c:/u/db/eset2.db
Backing up c:/u/db/iprem.db
Backing up c:/u/db/surv.db
Backing up c:/u/patch/reten/reten.pch
Backing up c:/u/patch/p13794a.p
Backing up c:/u/patch/p13794b.p
Backing up c:/u/patch/p13774.p
Backing up c:/u/patch/p13736.p
Backing up c:/u/patch/p13735.p
Backing up c:/u/patch/p13734.p
Backing up c:/u/patch/p13816a.p
Backing up c:/u/patch/p13816b.p
Backing up c:/u/patch/p13817a.p
Backing up c:/u/patch/p13817b.p
Backing up c:/u/patch/p13010a1.11c
Backing up c:/u/patch/p13010b1.11c
Backing up c:/u/patch/p12800a3.11c
Backing up c:/u/patch/p12800b3.11c

Internal backup complete
All files are backed up!
DATADUMP COMPLETE
.
EDD000

.**

>ld 21
PT1000

REQ: prt
TYPE: fcr
TYPE FCR_DATA
CUST 0

TYPE FCR_DATA
CUST 00
NFCR YES
** MAXT 12**
** OCB1 255**
** OCB2 255**
** OCB3 255**
IDCA NO

REQ: **
>
OVL000
>logo
TTY #00 LOGGED OUT SPRINT 10:13 20/1/2001
SESSION DURATION: 00:03

By Allen Russell

CARD CORRUPTION

(TN 68-0-12 IS CORRUPT)

```
>ld 32
NPR000
.stat 68 0 12
00 = UNIT 00 = IDLE  (L500)
01 = UNIT 01 = IDLE  (L500)
02 = UNIT 02 = IDLE  (L500)
03 = UNIT 03 = IDLE  (L500)
04 = UNIT 04 = IDLE  (L500)
05 = UNIT 05 = IDLE  (L500)
06 = UNIT 06 = IDLE  (L500)
07 = UNIT 07 = IDLE  (L500)
08 = UNIT 08 = IDLE  (L500)
09 = UNIT 09 = IDLE  (L500)
10 = UNIT 10 = IDLE  (L500)
11 = UNIT 11 = IDLE  (L500)
12 = UNIT 12 = IDLE  (L500)
13 = UNIT 13 = IDLE  (L500)
14 = UNIT 14 = IDLE  (L500)
15 = UNIT 15 = IDLE  (L500)
16 = UNIT 16 = DSBL (L500)
17 = UNIT 17 = IDLE  (L500)
18 = UNIT 18 = IDLE  (L500)
19 = UNIT 19 = IDLE  (L500)
20 = UNIT 20 = IDLE  (L500)
21 = UNIT 21 = IDLE  (L500)
22 = UNIT 22 = IDLE  (L500)
23 = UNIT 23 = IDLE  (L500)
24 = UNIT 24 = UNEQ
25 = UNIT 25 = UNEQ
26 = UNIT 26 = UNEQ
27 = UNIT 27 = UNEQ
28 = UNIT 28 = UNEQ
29 = UNIT 29 = UNEQ
30 = UNIT 30 = UNEQ
31 = UNIT 31 = UNEQ
.

pdt>tnt 68 0 12 16


 EQPD SLOOP TN 004530
 GP 0008F29F SLP 0008FF2C 00A05445  CD 00091983 00A053D5  LN 00095A25 00A053B5

pdt>tnt 68 0 12 20


 EQPD SLOOP TN 004570
 GP 0008F29F SLP 0008FF2C 00A05445  CD 0009198D 00A05301  LN 00095AC9 00A052E1

pdt>w 91983

00091983 : 00000860 /space
00091984 : 00095A25 /0 space  <--68.0.12.16
```

00091985 : 00095A4E /0 space <--68.0.12.17
00091986 : 00095A77 /0 space <--68.0.12.18
00091987 : 00095AA0 /0 <cr> <--68.0.12.19

pdt>w 9198d

0009198D : 00000860 /space
0009198E : 00095AC9 /0 space <--68.0.12.20
0009198F : 00095AF2 /0 space <--68.0.12.21
00091990 : 00095B1B /0 space <--68.0.12.22
00091991 : 00095B44 /0 <cr> <--68.0.12.23

pdt>tnt 68 0 12 0

EQPD SLOOP TN 004430 NEW CARD POINTER EVERY 4 UNITS
GP 0008F29F SLP 0008FEB5 00A08B31 CD 00091**95B** 00A07E32 LN 000919AB 00A07E12
pdt>tnt 68 0 12 4

EQPD SLOOP TN 004470
GP 0008F29F SLP 0008FEB5 00A08B31 CD 00091**965** 00A07133 LN 00092E92 00A07113
pdt>tnt 68 0 12 8

EQPD SLOOP TN 0044B0
GP 0008F29F SLP 0008FEB5 00A08B31 CD 00091**96F** 00A06377 LN 0009437F 00A06357
pdt>tnt 68 0 12 12

EQPD SLOOP TN 0044F0
GP 0008F29F SLP 0008FEB5 00A08B31 CD 00091**979** 00A056C5 LN 00095701 00A056A5

pdt>w 91979

00091979 : 00000860 /8**4**0<------changing the 6 to a 4, changed the card density from octal to quad
pdt>w 9196f but must do this for all four card pointers, ie every 4th unit has a different card pointer

0009196F : 00000860 /8**4**0
pdt>w 91965

00091965 : 00000860 /8**4**0
pdt>w 9195b

0009195B : 00000860 /8**4**0
pdt>sl1input

NPR000
.stat 68 0 12
00 = UNIT 00 = IDLE (L500)
01 = UNIT 01 = IDLE (L500)
02 = UNIT 02 = IDLE (L500)

03 = UNIT 03 = IDLE (L500)
04 = UNIT 04 = IDLE (L500)
05 = UNIT 05 = IDLE (L500)
06 = UNIT 06 = IDLE (L500)
07 = UNIT 07 = IDLE (L500)
08 = UNIT 08 = IDLE (L500)
09 = UNIT 09 = IDLE (L500)
10 = UNIT 10 = IDLE (L500)
11 = UNIT 11 = IDLE (L500)
12 = UNIT 12 = IDLE (L500)
13 = UNIT 13 = IDLE (L500)
14 = UNIT 14 = IDLE (L500)
15 = UNIT 15 = IDLE (L500)

>ld 43
EDD000

.edd

DB SEQ NUM = 961
CONFIG
CIOD157 INFO: CMDU 0 is ACTIVE, RDUN is ENABLED

PHYSICAL MAP
BCS TEMPLATE
PBX TEMPLATE
CUST
CLID
ROUTE
DAPC
LTN TN
LTN LNK
TN
SCL
ESN 00
NCTL
ACD
ACD SCH
ACD IO
GRP DNS
CPK
FRL
NFCR TREES
IDC   TREES
DIGITAL
DTI
ASNCH
AML / ELAN
VAS
TRSH
DCH
PRI
ARIES
SYSP
XPEC
XTDT

FTC
MCAD
FCAD
FDCT
LAPW
MSDL/MISP BLK
SOCKET ID BLK
TIME
DTI PDCA
CPND
CPND NM
SPECIFIC DATA
HI
ALARM_MGT
DTC001

CHECKING

RECORD COUNT = 1975
DATADUMP COMPLETE

By Allen Russell

D-CHANNEL MESSAGING ON ITG-COMPARED TO THE MERIDIAN-1

```
ITG>vxWorksShell
login windRiver
password:  developer
->DCHmenu
Please select one of the DCHmenu options:
0  - print menu (default)
1  - print current DCH state and configuration
2  - print application error log
3  - print link error log
4  - print protocol log
5  - print message log
6  - ENABLE error printing
7  - ENABLE info printing
8  - ENABLE incoming primitive
9  - ENABLE outgoing primitive
10 - enter message mode
11 - print b channel control blocks
99 - exit menu
 Please enter your DCHmenu choice: 8
ENABLE INCOMING PRIMITIVE MONITOR FOR PORT: 0
Please enter your DCHmenu choice: 9
ENABLE OUTGOING PRIMITIVE MONITOR FOR PORT: 0
LAPD -->>> UIPC----------OMSG SETUP
  HEADER          BCAP
{8 2 1 98 5} {4 3 80 90 a2}
        CHID             FAC
 {18 4 e9 a0 83 18} {1c 11 11 fa
           FAC
 a1 d 2 1 1 2 2 1 0 cc
    FAC         PROG      CLNG
 4 0 0 8 3} {1e 2 81 83} {6c
    CLNG                 CLED
 6 69 80 31 33 39 30} {70 7 e9
        CLED
 31 38 37 37 33 35
LAPD <<<-- UIPC----------IMSG CALLPROC
    HEADER         CHID
{8 2 81 98 2} {18 4 e9 a0 83 18}
LAPD <<<-- UIPC---------------------IMSG DISC
     HEADER         CSE
 {8 2 81 98 45} {8 2 81 a2}
LAPD -->>> UIPC-----------OMSG RELEASE
    HEADER
 {8 2 1 98 4d}
LAPD <<<-- UIPC-----------IMSG REL COMP
   HEADER
 {8 2 81 98 5a}
```

By Allen Russell

HOW TO WRITE TO THE DISPLAY OF A THOR MACHINE AND HOW TO READ THE DISPLAY OF A THOR MACHINE FROM PDT

pdt>lcdWriteDisplay "This is UGLY"
value = 0 = 0x0
pdt>lcdBuffShow

```
+-000000---------+ +-000001---------+ +-000002---------+ +-000000---------+
|Running DISK OS | |Running DISK OS | |    This is UGLY| |                |
'TH 9            | |IOP in slot 17  | |
:|~| |               |
+----------------+ +----------------+ +----------------+ +----------------+
+-000000---------+ +-000000---------+ +-000000---------+ +-000000---------+
|                | |                | |                | |                |
|                | |                | |                | |                |
+----------------+ +----------------+ +----------------+ +----------------+
+-000000---------+ +-000000---------+ +-000000---------+ +-000000---------+
|                | |                | |                | |                |
|                | |                | |                | |                |
+----------------+ +----------------+ +----------------+ +----------------+
+-000000---------+ +-000000---------+ +-000000---------+ +-000000---------+
|                | |                | |                | |                |
|                | |                | |                | |                |
+----------------+ +----------------+ +----------------+ +----------------+
+-000000---------+ +-000000---------+ +-000000---------+ +-000000---------+
|                | |                | |                | |                |
|                | |                | |                | |                |
+----------------+ +----------------+ +----------------+ +----------------+
+-000000---------+ +-000000---------+ +-000000---------+ +-000000---------+
|                | |                | |                | |                |
|                | |                | |                | |                |
```

By Allen Russell

SL-1 Debug and PDT Passwords

X11 25.XX		THOR = ^P^D^T thorsgr8 Level 1
		2tdp22ler Level 2
X11 24.XX		THOR = ^P^D^T thorsgr8 Level 1
		2tdp22ler Level 2
X11 23.XX		THOR = ^P^D^T thorsgr8 Level 1
		2tdp22ler Level 2
X11 22.XX		THOR = ^P^D^T thorsgr8 Level 1
		2tdp22ler Level 2
X11 21.XX	TTYJ	THOR = ^P^D^T thorsgr8
X11 20.XX	TTYJ	THOR = ^P^D^T thorsgr8
X11 19.XX	EMC2	THOR = ^P^D^T thorsgr8
X11 18.XX	SWAT	THOR = ^P^D^T thorsgr8
X11 17.XX	FC68	
X11 16.XX	SWAT	
X11 15.XX	SWAT	
X11 14.38 - 14.61	SLED	
X11 13.32 - 14.37	GB04 JA77	
X11 12.32 - 12.34	GB04 @WRK	
X11 11.20	FA16	
X11 10.08 - 10.09	4R50	
X11 09.36 - 09.40	9EGS	
X11 09.13 - 09.34	4R50	
X11 09.06	TTYJ	
X11 08.22 - 08.29	4R50	
X11 07.12	PINE	
X11 07.09	MTDS	
X11 05.22 - 05.38	DEXI	
X11 05.16 - 05.21	OPEN	
X11 04.21	CEPE	
X11 04.16	MTNV	
X11 03.12 - 03.21	WANE	
X11 03.08 - 03.10	JOSE	
X11 01.XX - 02.XX	7R31	
X09 08.XX	7R31	
X08 09.XX	7R31	
X07 09.XX	9951	
X07 08.XX	DEBG	
X05 07.XX - 08.XX	057X	
X05 05.XX	DEBG 7R31	
X02 05.XX	DEBG 7R31	
X37 06.22 - 06.42	37DJ	
X37 04.54	36DJ 37DJ	
X37 03.22	37DF	
X37 01.02	37CB	

OMEGA

$$ to enter debug and after you enter the password type in #EHM <cr> to enter the patch retention overlay area, password is RETAIN

LD 7 for option 11 patches, password is RETAIN

OPTION 11

To reload remotely, from tty 0 only go to LD 43 and the command is XSL<cr> and the password is "OHNO"

LD 77

The pass= 9950

Turn on/off lamp audit = DLMP 0=on
1=off

LD 48

Turn on/off lamp audit = SETM NLMP 0=on
1=off

MEMORY FREEZE

Examples of how to set a memory freeze:

OMEGA = #W 7C9F<cr>
007C9F : 000003F/FC64<cr>

OPT11 = #W 0 157<cr>
SL-1ST 00 0157 : 0000/EB53<cr>

OPT21

OPTION 11 TEST CHANNEL

Set the 150 baud rate switch to on (leave the true baud rate setting on so they will both be on) to enter the test channel press $#, the password is ACYR. This is also helpful when trouble shooting a down option 11, with the 150 baud setting on the system will display the bootrom tests that are performed on the cpu card.

PDT STUFF

```
pdt>cnipShowAll 1
--------------------------- CNIP HardWare Show ---------------------------
Port Id         = 0xacbde80     Port Number     = 0
Object Name     = cnip 0 12 0   CSR Base        = 0xffe0c800

Port status     = NORMAL MODE   Parity Gen      =  NO

Cable Status :
Cable 1 Status  = CONNECT       EI_LOST         = NO TIMEOUT
Cable 2 Status  = CONNECT       Switch Status   = ENABLED
Remote Power    = Supplied      3PE Status      = ENABLED

Interrupt Propagation to CP (EISMSK): ALLOWED.
Remote Device (3PE) is ACCESSIBLE.

Line    EI Address      EI Mask         Line Stat               EIT
----    ----------      -------         ---------               ---
  0     0xffe0f240      UnMasked        no Int. pending         Not Set (0)
  1     0xffe0f200      UnMasked        no Int. pending         Not Set (0)
  2     0xffe0f220      UnMasked        no Int. pending         Not Set (0)
  3     0xffe0f278      UnMasked        no Int. pending         Not Set (0)

Address LB = 0x18020            BERZR = 0x0
Data    LB = 0xffff             ICCPU = 0
Local Redundant Set = DRIVEN
--------------------------- CNIP HardWare Show ---------------------------
Port Id         = 0xacbdf88     Port Number     = 1
Object Name     = cnip 0 12 1   CSR Base        = 0xffe0c840

Port status     = DISABLE MODE  Parity Gen      =  NO

Cable Status :
Cable 1 Status  = NOCONNECT     EI_LOST         = NO TIMEOUT
Cable 2 Status  = NOCONNECT     Switch Status   = ENABLED
Remote Power    = Supplied      3PE Status      = DISABLED

Interrupt Propagation to CP (EISMSK): ALLOWED.
Remote Device (3PE) is ACCESSIBLE.

Line    EI Address      EI Mask         Line Stat               EIT
----    ----------      -------         ---------               ---
  0     0x0             Masked          no Int. pending         Not Set (0)
  1     0x0             Masked          no Int. pending         Not Set (0)
  2     0x0             Masked          no Int. pending         Not Set (0)
  3     0xffe0f278      Masked          no Int. pending         Not Set (0)

Address LB = 0x18000            BERZR = 0x0
Data    LB = 0x6996             ICCPU = 0
Local Redundant Set = DRIVEN
value = 0 = 0x0

pdt>sl1AccessShow 2

  SL1 Access Maps: o = ok, B = bad

| fiji-from cpu0          || fiji-from cpu1          |
|-------------------------||-------------------------|
| 00 11 22 33 44 55 66 77 || 00 11 22 33 44 55 66 77 |
```

```
| 01 01 01 01 01 01 01 01 || 01 01 01 01 01 01 01 01 |
|-------------------------||-------------------------|
| oo oo oo oo BB oo oo oo || oo oo oo oo BB oo oo oo |

| from cpu0          || from cpu1          |
| scg stkint rtcflt || scg stkint rtcflt |
| 0 1                || 0 1                |
|--------------------||--------------------|
| o o   o      o    || o o   o      o    |

| loops(x-y)from cpu0     |xxx-yyy| loops(x-y)from cpu1     |
|-------------------------|-------|-------------------------|
| oo oo oo oo oo oo oo oo |  0- 15| oo oo oo oo oo oo oo oo |
| oo oo oo oo oo oo oo oo | 16- 31| oo oo oo oo oo oo oo oo |
| oo oo oo oo oo oo oo oo | 32- 47| oo oo oo oo oo oo oo oo |
| oo oo oo oo oo oo oo oo | 48- 63| oo oo oo oo oo oo oo oo |
| oo oo oo oo oo oo oo oo | 64- 79| oo oo oo oo oo oo oo oo |
| oo oo oo oo oo oo oo oo | 80- 95| oo oo oo oo oo oo oo oo |
| oo oo oo oo oo oo oo oo | 96-111| oo oo oo oo oo oo oo oo |
| oo oo oo oo oo oo oo oo |112-127| oo oo oo oo oo oo oo oo |
| oo oo oo oo oo oo oo oo |128-143| oo oo oo oo oo oo oo oo |
| oo oo oo oo oo oo oo oo |144-159| oo oo oo oo oo oo oo oo |
| oo oo oo oo oo oo oo oo |160-175| oo oo oo oo oo oo oo oo |
| oo oo oo oo oo oo oo oo |176-191| oo oo oo oo oo oo oo oo |
| oo oo oo oo oo oo oo oo |192-207| oo oo oo oo oo oo oo oo |
| oo oo oo oo oo oo oo oo |208-223| oo oo oo oo oo oo oo oo |
| oo oo oo oo oo oo oo oo |224-239| oo oo oo oo oo oo oo oo |
| oo oo oo oo oo oo oo oo |240-255| oo oo oo oo oo oo oo oo |

| ps-from cpu0            || ps-from cpu1            |
|-------------------------||-------------------------|
| 00 11 22 33 44 55 66 77 || 00 11 22 33 44 55 66 77 |
| 01 01 01 01 01 01 01 01 || 01 01 01 01 01 01 01 01 |
|-------------------------||-------------------------|
| oo oo oo oo BB oo oo oo || oo oo oo oo BB oo oo oo |

| near_ext-from cpu0      || near_ext-from cpu1      |
|-------------------------||-------------------------|
| 00 11 22 33 44 55 66 77 || 00 11 22 33 44 55 66 77 |
| 01 01 01 01 01 01 01 01 || 01 01 01 01 01 01 01 01 |
|-------------------------||-------------------------|
| oo oo oo oo BB oo oo oo || oo oo oo oo BB oo oo oo |

| far_ext-from cpu0       || far_ext-from cpu1       |
|-------------------------||-------------------------|
| 00 11 22 33 44 55 66 77 || 00 11 22 33 44 55 66 77 |
| 01 01 01 01 01 01 01 01 || 01 01 01 01 01 01 01 01 |
|-------------------------||-------------------------|
| oo oo oo oo oo oo oo oo || oo oo oo oo oo oo oo oo |

| clk_nwk_shf-from cpu0   || clk_nwk_shf-from cpu1   |
|-------------------------||-------------------------|
| 00 11 22 33 44 55 66 77 || 00 11 22 33 44 55 66 77 |
| 01 01 01 01 01 01 01 01 || 01 01 01 01 01 01 01 01 |
|-------------------------||-------------------------|
| oo oo oo oo BB oo oo oo || oo oo oo oo BB oo oo oo |

| scg_disabled-from cpu0  || scg_disabled-from cpu1  |
|-------------------------||-------------------------|
| 00 11 22 33 44 55 66 77 || 00 11 22 33 44 55 66 77 |
| 01 01 01 01 01 01 01 01 || 01 01 01 01 01 01 01 01 |
|-------------------------||-------------------------|
| oo oo oo oo oo oB BB BB || oo oo oB oo oo oB BB BB |
```

value = 2 = 0x2

pdt>pua

TRUNK_MONITOR @ 000A55 = 000000
TRUNK_TN @ 000A56 = 000000 000000 000000 000000 000000 000000 000000
DTSL_MONITOR @ 0011C7 = 000000
DTSL_MON_WORDS @ 0011C8 = 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000
SNAP_BUG_RAS_OFS @ 00A5ED = 000000
UIPE_BUG_PRT_CTL @ 0043CF = 000000

USPARE_WORDS[0] @ 000CFE , SIZE 011E PSPARE_WORDS[0] @ 008FC4 , SIZE 0020
U_JUNK_WORDS[0] @ 0051F1 , SIZE 00C8 P_JUNK_WORDS[0] @ 00AEC6 , SIZE 00C7

Z_PHYS_MEM_LIM @ 009CE4 LAST_INIT_HOUR @ 00935C
CONFIGLOOP[0] @ 009911 , SIZE 0100 SYS_XPEC[0] @ 009A32 , SIZE 0064
CRSTART @ 008014 CREND @ 008015
QUEUE_ADDR[0] @ 009063 , SIZE 0025
CDNXPTR[0] @ 009150 , SIZE 0064 SCLMHTPTR @ 00927C
BCS_TEMPL_HDR @ 009584 PBX_TEMPL_HDR @ 009585
LOG_IO_PTR @ 00A80F CONFIGTTYOP[0] @ 009811 , SIZE 0010
P_MSDLMISP_MHPTR @ 00A80D IO_TABLE_PTR @ 008013
P_VAS_TBL_HDR @ 009CEC P_BRI_PROTMHTPTR @ 00A639
DTSLHT_PTR @ 009364 CON_DDCS_FLAG[0] @ 00986B , SIZE 0100

pdt>hiOOSShow
"cnip 0 12 1"(ID = 0xacbdf88) OOS Reasons: 16 17 22
"cnip 1 12 1"(ID = 0xacbe2b4) OOS Reasons: 16 17 22
"simm 0 1"(ID = 0xacbee20) OOS Reasons: 10
"simm 0 3"(ID = 0xacbef38) OOS Reasons: 10
"simm 0 5"(ID = 0xacbf050) OOS Reasons: 10
"simm 0 6"(ID = 0xacbf0dc) OOS Reasons: 10
"simm 0 7"(ID = 0xacbf168) OOS Reasons: 10
"simm 1 1"(ID = 0xacbf280) OOS Reasons: 10
"simm 1 3"(ID = 0xacbf398) OOS Reasons: 10
"simm 1 5"(ID = 0xacbf4b0) OOS Reasons: 10
"simm 1 6"(ID = 0xacbf53c) OOS Reasons: 10
"simm 1 7"(ID = 0xacbf5c8) OOS Reasons: 10
value = 0 = 0x0

pdt>conShowAll

connector: "ipb 1 12" (0xacbc174)
container dev: "ipb 1" (0xacbb3dc)
upstream dev: "ipb 1" (0xacbb3dc)

state: CON_KNOWN_MATCH
specified dev: "cnib 1 12" (0xacbe090)
connected dev: "cnib 1 12" (0xacbe090)

connector: "ipb 1 15" (0xacbc3d8)
container dev: "ipb 1" (0xacbb3dc)
upstream dev: "" (0x0)

state: CON_KNOWN_MATCH
specified dev: "cp 1 15" (0xacbb30c)
connected dev: "cp 1 15" (0xacbb30c)

connector: "ipb 1 17" (0xacbc570)
container dev: "ipb 1" (0xacbb3dc)
upstream dev: "ipb 1" (0xacbb3dc)

state: CON_KNOWN_MATCH
specified dev: "iop 1 17" (0xacbeca4)
connected dev: "iop 1 17" (0xacbeca4)

connector: "ipb 1 12 A" (0xacbc708)
container dev: "ipb 1" (0xacbb3dc)
upstream dev: "cnip 1 12 0" (0xacbe1ac)

state: CON_KNOWN_MATCH
specified dev: "ncb 0" (0xacbe3bc)
connected dev: "ncb 0" (0xacbe3bc)

connector: "ipb 1 12 C" (0xacbc7d4)
container dev: "ipb 1" (0xacbb3dc)
upstream dev: "" (0x0)

state: DISCON_SPEC
specified dev: "ncb 0" (0xacbe3bc)
connected dev: "" (0x0)

connector: "ipb 0 12" (0xacbd638)
container dev: "ipb 0" (0xacbc8a0)
upstream dev: "ipb 0" (0xacbc8a0)

state: CON_KNOWN_MATCH
specified dev: "cnib 0 12" (0xacbdd64)
connected dev: "cnib 0 12" (0xacbdd64)

connector: "ipb 0 15" (0xacbd89c)
container dev: "ipb 0" (0xacbc8a0)
upstream dev: "" (0x0)

state: CON_KNOWN_MATCH
specified dev: "cp 0 15" (0xacbb198)
connected dev: "cp 0 15" (0xacbb198)

connector: "ipb 0 17" (0xacbda34)
container dev: "ipb 0" (0xacbc8a0)
upstream dev: "ipb 0" (0xacbc8a0)

state: CON_KNOWN_MATCH
specified dev: "iop 0 17" (0xacbebb4)
connected dev: "iop 0 17" (0xacbebb4)

connector: "ipb 0 12 A" (0xacbdbcc)
container dev: "ipb 0" (0xacbc8a0)
upstream dev: "cnip 0 12 0" (0xacbde80)

state: CON_KNOWN_MATCH
specified dev: "ncb 0" (0xacbe3bc)
connected dev: "ncb 0" (0xacbe3bc)

connector: "ipb 0 12 C" (0xacbdc98)
container dev: "ipb 0" (0xacbc8a0)
upstream dev: "" (0x0)

state: DISCON_SPEC
specified dev: "ncb 0" (0xacbe3bc)
connected dev: "" (0x0)
value = 0 = 0x0

pdt>scsiDiskStat

```
        >lodu 0
        >HardDisk from:ADTX     Model:AXSITS25D2N 014G
        >               Size:1672MB, Sectors:11733120
        >Unprotected Part Size: 30MB, Sectors: 60000
        >Spare       Part Size: 30MB, Sectors: 60000
        >CardId      Part Size:  1MB, Sectors:  2000
        >Protected   Part Size: 60MB, Sectors:120000

value = 293 = 0x125


pdt>scsiDrvStat
 CMDU0 is active.
 CMDU1 is standby.
 Disk Redundancy is enabled.

pdt>scsiSemShow
VOLUME ** semaphores:
---------------------------------
Volume /p *dosvd_semId* semaphore:

Semaphore Id        : 0x807546c
Semaphore Type      : MUTEX
Task Queuing        : PRIORITY
Pended Tasks        : 0
Owner               : NONE
Volume /u *dosvd_semId* semaphore:

Semaphore Id        : 0x807549c
Semaphore Type      : MUTEX
Task Queuing        : PRIORITY
Pended Tasks        : 0
Owner               : NONE
Volume /f0 *dosvd_semId* semaphore:

Semaphore Id        : 0x807585c
Semaphore Type      : MUTEX
Task Queuing        : PRIORITY
Pended Tasks        : 0
Owner               : NONE
Volume /f1 *dosvd_semId* semaphore:

Semaphore Id        : 0x807561c
Semaphore Type      : MUTEX
Task Queuing        : PRIORITY
Pended Tasks        : 0
Owner               : NONE
Volume /id0 *dosvd_semId* semaphore:

Semaphore Id        : 0x80759dc
Semaphore Type      : MUTEX
Task Queuing        : PRIORITY
Pended Tasks        : 0
Owner               : NONE
Volume /id1 *dosvd_semId* semaphore:

Semaphore Id        : 0x807594c
Semaphore Type      : MUTEX
Task Queuing        : PRIORITY
Pended Tasks        : 0
Owner               : NONE
Switchover *swoSemaphore* semaphore:
```

Semaphore Id : 0x807612c
Semaphore Type : MUTEX
Task Queuing : FIFO
Pended Tasks : 0
Owner : NONE

SCSI CTRL 4. Associated semaphores:

REDUNDANCY *dskRdnMutexSem* semaphore:

Semaphore Id : 0x8075a6c
Semaphore Type : BINARY
Task Queuing : PRIORITY
Pended Tasks : 0
State : FULL

SCSI CTRL *ctrlMutexSem* semaphore:

Semaphore Id : 0x8075b2c
Semaphore Type : BINARY
Task Queuing : PRIORITY
Pended Tasks : 0
State : FULL

SCSI DEV 3(HD) & 0(FD) - CMDU 0.
SCSI DEV 2(HD) & 1(FD) - CMDU 1.

SCSI DEV 0 *devMutexSem* semaphore:

Semaphore Id : 0x80758bc
Semaphore Type : BINARY
Task Queuing : PRIORITY
Pended Tasks : 0
State : FULL

SCSI DEV 1 *devMutexSem* semaphore:

Semaphore Id : 0x807567c
Semaphore Type : BINARY
Task Queuing : PRIORITY
Pended Tasks : 0
State : FULL

SCSI DEV 2 *devMutexSem* semaphore:

Semaphore Id : 0x80759ac
Semaphore Type : BINARY
Task Queuing : PRIORITY
Pended Tasks : 0
State : FULL

SCSI DEV 3 *devMutexSem* semaphore:

Semaphore Id : 0x8075a3c
Semaphore Type : BINARY
Task Queuing : PRIORITY
Pended Tasks : 0
State : FULL

SCSI DEV 6 *devMutexSem* semaphore:

Semaphore Id : 0x807552c
Semaphore Type : BINARY
Task Queuing : PRIORITY
Pended Tasks : 0
State : FULL

SCSI DEV 7 *devMutexSem* semaphore:

Semaphore Id : 0x807576c
Semaphore Type : BINARY
Task Queuing : PRIORITY
Pended Tasks : 0
State : FULL

pdt>rdaccess

********** TOP OF FILE **********

```
LOGIN   L2          0:2:7     /sio/0
LOGIN   L2          0:3:6     /sio/0
LOGIN   L2          0:12:11   /sio/0
LOGIN   L2          0:2:6     /sio/0
LOGIN   L2          0:7:56    /sio/0
LOGIN   L2          0:14:56   /sio/0
LOGIN   L2          1:45:5    /sio/0
LOGIN   L2          0:2:35    /sio/0
LOGIN   L2          0:5:33    /sio/0
LOGIN   L2          0:17:29   /sio/0
LOGIN   L2          0:22:18   /sio/0
LOGIN   L2          0:26:46   /sio/0
LOGIN   L2          0:30:25   /sio/0
LOGIN   L2          0:36:24   /sio/0
LOGIN   L2          0:40:43   /sio/0
LOGIN   L2          0:44:52   /sio/0
LOGIN   L2          0:48:28   /sio/0
LOGIN   L2          0:54:10   /sio/0
LOGIN   L2          0:57:59   /sio/0
LOGIN   L2          1:1:34    /sio/0
LOGIN   L2          1:5:9     /sio/0
LOGIN   L2          1:7:14    /sio/0
LOGIN   L2          1:8:42    /sio/0
LOGIN   L2          1:12:5    /sio/0
LOGIN   L2          1:14:21   /sio/0
LOGIN   L2          1:19:54   /sio/0
LOGIN   L2          0:2:7     /sio/0
LOGIN   L2          0:2:27    /sio/0
LOGIN   L2          0:7:38    /sio/0
LOGIN   L2          0:14:14   /sio/0
LOGIN   L2          0:19:52   /sio/0
LOGIN   L2          0:24:31   /sio/0
LOGIN   L2          0:30:32   /sio/0
LOGIN   L2          0:39:56   /sio/0
LOGIN   L2          0:47:17   /sio/0
LOGIN   L2          0:53:41   /sio/0
LOGIN   L2          0:58:4    /sio/0
LOGIN   L2          1:2:13    /sio/0
LOGIN   L2          1:7:46    /sio/0
LOGIN   L2          1:12:23   /sio/0
LOGIN   L2          1:17:51   /sio/0
LOGIN   L2          1:22:30   /sio/0
LOGIN   L2          1:27:24   /sio/0
```

LOGIN L2 1:42:6 /sio/0
LOGIN L2 1:45:15 /sio/0
LOGIN L2 0:4:27 /sio/0
LOGIN L2 0:6:57 /sio/0
LOGIN L2 0:9:9 /sio/0
LOGIN L2 0:14:44 /sio/0
LOGIN L2 0:47:13 /sio/0
LOGIN L2 0:51:16 /sio/0
LOGIN L2 1:56:5 /sio/0
LOGIN L2 18:52:37 /sio/0
LOGIN L2 19:0:58 /sio/0
LOGIN L2 19:6:4 /sio/0
LOGIN L2 19:18:53 /sio/0
LOGIN L2 19:21:21 /sio/0
LOGIN L2 19:36:2 /sio/0
LOGIN L2 19:39:43 /sio/0
LOGIN L2 19:46:58 /sio/0
LOGIN L2 19:53:29 /sio/0
LOGIN L2 20:2:12 /sio/0
LOGIN L2 20:4:32 /sio/0
LOGIN L2 20:9:22 /sio/0
LOGIN L2 0:4:28 /sio/0
LOGIN L2 0:4:42 /sio/0
LOGIN L2 0:7:48 /sio/0
LOGIN L2 0:11:54 /sio/0
LOGIN L2 0:16:32 /sio/0
LOGIN L2 1:17:21 /sio/0
LOGIN L2 1:53:48 /sio/0
LOGIN L2 2:21:21 /sio/0
LOGIN L2 2:37:43 /sio/0
LOGIN L2 2:51:47 /sio/0
LOGIN L2 0:3:8 /sio/0
LOGIN L2 0:6:9 /sio/0
LOGIN L2 0:6:34 /sio/0
LOGIN L2 0:9:2 /sio/0
LOGIN L2 0:9:25 /sio/0
LOGIN L2 0:12:8 /sio/0
LOGIN L2 0:17:17 /sio/0
LOGIN L2 0:19:19 /sio/0
LOGIN L2 0:22:49 /sio/0
LOGIN L2 0:26:36 /sio/0
LOGIN L2 0:32:8 /sio/0
LOGIN L2 0:3:58 /sio/0
LOGIN L2 0:6:22 /sio/0
LOGIN L2 0:8:2 /sio/0
LOGIN L2 0:16:37 /sio/0
LOGIN L2 0:24:30 /sio/0
LOGIN L2 0:31:29 /sio/0
LOGIN L2 0:35:11 /sio/0
LOGIN L2 0:39:45 /sio/0
LOGIN L2 0:37:57 /sio/0
LOGIN L2 0:54:50 /sio/0
LOGIN L2 0:3:46 /sio/0
LOGIN L2 0:2:19 /sio/0
LOGIN L2 0:2:13 /sio/0
LOGIN L2 0:4:19 /sio/0
LOGIN L2 0:9:6 /sio/0
LOGIN L2 0:2:25 /sio/0
LOGIN L2 0:27:19 /sio/0
LOGIN L2 0:3:40 /sio/0
LOGIN L2 0:7:33 /sio/0
LOGIN L2 0:12:9 /sio/0
LOGIN L2 0:15:52 /sio/0

LOGIN L2 0:19:37 /sio/0
LOGIN L2 0:26:57 /sio/0
LOGIN L2 0:31:51 /sio/0
LOGIN L2 0:35:47 /sio/0
LOGIN L2 0:39:33 /sio/0
LOGIN L2 0:43:15 /sio/0
LOGIN L2 0:3:15 /sdi/tty1
LOGOUT L2 0:3:58 /sdi/tty1
LOGIN L2 13 Apr, 1999 14:16:59 /sio/1
LOGIN L2 13 Apr, 1999 15:45:6 /sio/1
LOGOUT L2 13 Apr, 1999 15:45:24 /sio/1
LOGIN L2 28 Dec, 1999 14:47:22 /sio/1
LOGOUT L2 28 Dec, 1999 14:51:24 /sio/1
LOGIN L2 19 Oct, 2000 10:19:53 /pty/ptty00.S
LOGOUT L-1 19 Oct, 2000 10:20:13
LOGIN L2 19 Oct, 2000 10:25:46 /pty/ptty00.S
LOGOUT L-1 19 Oct, 2000 10:27:44
LOGIN L2 19 Oct, 2000 10:35:7 /pty/ptty00.S
LOGOUT L-1 19 Oct, 2000 10:35:41
LOGIN L2 19 Oct, 2000 10:40:47 /pty/ptty00.S
LOGOUT L-1 19 Oct, 2000 10:41:29
LOGIN L2 20 Oct, 2000 9:25:37 /pty/ptty00.S
LOGOUT L-1 20 Oct, 2000 9:27:36
LOGIN L2 20 Oct, 2000 9:48:7 /pty/ptty00.S
LOGOUT L-1 20 Oct, 2000 9:50:23
LOGIN L2 20 Oct, 2000 9:51:8 /pty/ptty00.S
LOGOUT L-1 20 Oct, 2000 9:52:25
LOGIN L2 20 Oct, 2000 10:22:59 /pty/ptty00.S
LOGOUT L-1 20 Oct, 2000 10:23:43
LOGIN L2 20 Oct, 2000 10:25:39 /pty/ptty00.S
LOGOUT L-1 20 Oct, 2000 10:26:24
LOGIN L2 20 Oct, 2000 10:28:20 /pty/ptty00.S
LOGOUT L-1 20 Oct, 2000 10:28:53
LOGIN L2 20 Oct, 2000 10:33:5 /pty/ptty00.S
LOGOUT L-1 20 Oct, 2000 10:33:23
LOGIN L2 20 Oct, 2000 10:47:22 /pty/ptty00.S
LOGOUT L-1 20 Oct, 2000 10:48:18
LOGIN L2 20 Oct, 2000 11:20:7 /pty/ptty00.S
LOGOUT L-1 20 Oct, 2000 11:20:20
LOGIN L2 20 Oct, 2000 11:26:28 /pty/ptty00.S
LOGOUT L-1 20 Oct, 2000 11:26:41
LOGIN L2 20 Oct, 2000 11:31:18 /pty/ptty00.S
LOGOUT L-1 20 Oct, 2000 11:31:54
LOGIN L2 20 Oct, 2000 11:32:45 /pty/ptty00.S
LOGOUT L-1 20 Oct, 2000 11:33:3
LOGIN L2 20 Oct, 2000 11:35:34 /pty/ptty00.S
LOGOUT L-1 20 Oct, 2000 11:35:56
LOGIN L2 20 Oct, 2000 11:37:12 /pty/ptty00.S
LOGOUT L-1 20 Oct, 2000 11:37:25
LOGIN L2 27 Oct, 2000 16:19:19 /sdi/tty4
LOGOUT L2 27 Oct, 2000 16:26:48 /sdi/tty4
LOGIN L2 2 Nov, 2000 15:32:26 /sdi/tty4
LOGOUT L2 2 Nov, 2000 15:59:27 /sdi/tty4
LOGIN L2 2 Nov, 2000 16:5:31 /sdi/tty4
LOGOUT L2 2 Nov, 2000 16:8:7 /sdi/tty4
LOGIN L2 2 Nov, 2000 16:11:5 /sdi/tty4
LOGOUT L2 2 Nov, 2000 16:19:40 /sdi/tty4
LOGIN L2 10 Nov, 2000 14:49:39 /sdi/tty4
LOGOUT L2 10 Nov, 2000 14:56:59 /sdi/tty4
LOGIN L2 10 Nov, 2000 20:10:27 /sdi/tty4
LOGOUT L2 10 Nov, 2000 20:13:30 /sdi/tty4
LOGIN L2 5 Jan, 2001 16:30:53 /sdi/tty4
LOGOUT L2 5 Jan, 2001 16:34:42 /sdi/tty4

```
LOGIN   L2  29 Jan, 2001 11:47:48   /sio/1
LOGOUT  L2  29 Jan, 2001 11:50:20   /sio/1
LOGIN   L2  26 Apr, 2001 12:0:9     /sdi/tty4
LOGOUT  L2  26 Apr, 2001 12:9:32    /sdi/tty4
LOGERR      26 Apr, 2001 14:58:27   /sdi/tty4
LOGERR      26 Apr, 2001 14:59:12   /sdi/tty4
LOGIN   L2  26 Apr, 2001 14:59:22   /sdi/tty4
LOGOUT  L2  26 Apr, 2001 15:0:6     /sdi/tty4
LOGIN   L2  26 Apr, 2001 15:8:34    /sdi/tty4
LOGOUT  L2  26 Apr, 2001 15:14:9    /sdi/tty4
LOGIN   L2  1 May, 2001  10:25:57   /sdi/tty4
LOGOUT  L2  1 May, 2001  10:45:3    /sdi/tty4
LOGIN   L2  4 Jun, 2001  12:54:26   /sdi/tty4
LOGOUT  L2  4 Jun, 2001  13:29:30   /sdi/tty4
LOGIN   L2  4 Jun, 2001  13:30:21   /sdi/tty4
LOGOUT  L2  4 Jun, 2001  13:30:36   /sdi/tty4
LOGIN   L2  1 Aug, 2001  14:13:34   /sdi/tty4
LOGOUT  L2  1 Aug, 2001  14:16:1    /sdi/tty4
LOGIN   L2  23 Oct, 2001 14:55:11   /sdi/tty4
LOGOUT  L2  23 Oct, 2001 15:1:8     /sdi/tty4
LOGIN   L2  24 Oct, 2001 10:8:24    /sdi/tty4
LOGOUT  L2  24 Oct, 2001 10:27:59   /sdi/tty4
LOGIN   L2  24 Oct, 2001 10:36:45   /sdi/tty4
LOGOUT  L2  24 Oct, 2001 10:39:31   /sdi/tty4
LOGIN   L2  3 Dec, 2001  9:48:47    /sdi/tty4
LOGOUT  L2  3 Dec, 2001  9:51:35    /sdi/tty4
LOGIN   L2  3 Dec, 2001  12:18:49   /sio/1
LOGOUT  L2  3 Dec, 2001  12:27:38   /sio/1
LOGIN   L2  3 Dec, 2001  15:23:41   /sdi/tty4
LOGOUT  L2  3 Dec, 2001  15:55:13   /sdi/tty4
LOGIN   L2  3 Dec, 2001  18:45:29   /sio/1
********** END OF FILE **********
pdt>routeShow

ROUTE NET TABLE
destination      gateway         flags  Refcnt  Use          Interface
------------------------------------------------------------------------
137.135.128.0    137.135.128.253  1      1       2           ln0
------------------------------------------------------------------------

ROUTE HOST TABLE
destination      gateway         flags  Refcnt  Use          Interface
------------------------------------------------------------------------
127.0.0.1        127.0.0.1        5      0       4           lo0
------------------------------------------------------------------------
value = 73 = 0x49
pdt>hostShow
hostname         inet address       aliases
--------         ------------       -------
localhost        127.0.0.1
PRIMARY_ENET     137.135.128.253
SECONDARY_ENET   137.135.128.254
value = 0 = 0x0

pdt>elanShow
ELAN Server Information:
Socket FD = 25
Task ID = 0xbb85cd8
ELAN Client Information:
Table Index = 0
csl # = 16
vasid = 16
M1 Buffer Size = 512
```

IP Address = 137.135.128.200
Socket FD = 39
Task ID = 0xbb78fa0
value = 0 = 0x0

pdt>ACDqshow 1 0
System: ACD DN Limit: 24000
System: Number of ACD DNs configured: 41
System: ACD Agent Limit: 32767
System: Number of ACD Agents configured: 153

Customer 0
Protected Cust. Data Block at 5c9d8 (0x8e02760)
ACD Agent ID Table at 6c927 (0x8e4249c)
ACD List Block at 6b614 (0x8e3d850)
Number of queues 41

Index.	DN.	Type.	Pos.	NSVC.	P. ACD Blk.	Unp. ACD Blk.
0	7000	ACD	23	DAY	6c8aa	75b65c
1	7001	ACD	1	DAY	6c849	75b577
2	7002	ACD	0	DAY	6c7e4	75b492
3	5100	ACD	5	DAY	6c73c	75b3ad
4	5101	ACD	0	DAY	6c694	75b2c8
5	5102	ACD	0	DAY	6c5ec	75b1e3
6	5103	ACD	4	DAY	6c544	75b0fe
7	5104	ACD	0	DAY	6c49c	75b019
8	5105	ACD	0	DAY	6c3f4	75af34
9	5106	ACD	0	DAY	6c34c	75ae4f
10	5107	ACD	0	DAY	6c2a4	75ad6a
11	5108	ACD	2	DAY	6c1fc	75ac85
12	5109	ACD	0	DAY	6c154	75aba0
13	5110	ACD	0	DAY	6c0ac	75aabb
14	5111	ACD	0	DAY	6c004	75a9d6
15	5112	ACD	0	DAY	6bf5c	75a8f1
16	5000	CDN	0	DAY	6beff	75a80c
17	5001	CDN	0	DAY	6bea2	75a727
18	5002	CDN	0	DAY	6be45	75a642
19	5003	CDN	0	DAY	6bde8	75a55d
20	5004	CDN	0	DAY	6bd8b	75a478
21	5005	CDN	0	DAY	6bd2e	75a393
22	5006	CDN	0	DAY	6bcd1	75a2ae
23	5007	CDN	0	DAY	6bc74	75a1c9
24	5008	CDN	0	DAY	6bc17	75a0e4
25	5009	CDN	0	DAY	6bbba	759fff
26	5010	CDN	0	DAY	6bb5d	759f1a
27	5011	CDN	0	DAY	6bb00	759e35
28	5012	CDN	0	DAY	6baa3	759d50
29	7003	ACD	0	DAY	6ba45	759c6b
30	7004	ACD	0	DAY	6b9e7	759b86
31	3600	ACD	0	DAY	6b989	759aa1
32	2221	ACD	0	DAY	6b92b	7599bc
33	7700	ACD	0	DAY	6b8cd	7598d7
34	2242	ACD	0	DAY	6b86f	7597f2
35	5050	CDN	0	DAY	6b812	75970d
36	2222	ACD	0	DAY	6b7b4	759628
37	7010	ACD	0	DAY	6b756	759543
38	5013	CDN	0	DAY	6b6f9	75945e
39	5555	CDN	0	DAY	6b69c	759379
40	2223	ACD	0	DAY	6b63e	759294

```
value = 0 = 0x0

pdt>ovl137ifShow
Ethernet (In unit number 0):
Host: PRIMARY_ENET
Internet address: 137.135.128.253
Broadcast address: 137.135.128.255
Ethernet address: 00:00:75:33:00:f7
Netmask: 0xffff0000; Subnetmask: 0xffffff00
1948 packets received; 1934 packets sent
0 input errors; 0 output errors
0 collisions
value = 13 = 0xD

pdt>ncbIsrCountShow
                Count     Total    XCount    XTotalStuckTotal
        READY      3442      3442         0         0         0
           IO    639267    639267         0         0         0
         LINT    248562    248562         0         0         0
value = 0 = 0x0

pdt>tcpstatShow
TCP:
        0 packet sent
                0 data packet (0 byte)
                0 data packet (0 byte) retransmitted
                0 ack-only packet (0 delayed)
                0 URG only packet
                0 window probe packet
                0 window update packet
                0 control packet
        0 packet received
                0 ack (for 0 byte)
                0 duplicate ack
                0 ack for unsent data
                0 packet (0 byte) received in-sequence
                0 completely duplicate packet (0 byte)
                0 packet with some dup. data (0 byte duped)
                0 out-of-order packet (0 byte)
                0 packet (0 byte) of data after window
                0 window probe
                0 window update packet
                0 packet received after close
                0 discarded for bad checksum
                0 discarded for bad header offset field
                0 discarded because packet too short
        0 connection request
        0 connection accept
        0 connection established (including accepts)
        1 connection closed (including 0 drop)
        0 embryonic connection dropped
        0 segment updated rtt (of 0 attempt)
        0 retransmit timeout
                0 connection dropped by rexmit timeout
        0 persist timeout
        0 keepalive timeout
                0 keepalive probe sent
                0 connection dropped by keepalive
value = 36 = 0x24
pdt>ethULANStatusShow
ETHERNET IN CSA (Local):
Status        : 2
OOSReason     : 18
```

```
Stored State  : 2
Side          : 0
Debug Flag    : 0
value = 18 = 0x12
pdt>memShow .
minsize 408 maxWee 256 delta lo/hi 0/0 red 262144
        lo/hi 80a2a38/80a3ffc bs lo/hi 0/0
FREE LIST:
   #      addr     size (dec/hex)
 --- ---------- -----------------
   0 0x080a2a38     5572/15c4
   1 0x080a600c     8176/1ff0
   2 0x080aa00c     8176/1ff0
   3 0x0811b308  4811812/496c24
   4 0x085b48c4     2064/810
   5 0x085b9bb4      464/1d0
   6 0x08650edc      504/1f8
   7 0x08660588     4624/1210
   8 0x086847f0      464/1d0
   9 0x086ad810    10220/27ec
  10 0x0a26ae78 10300812/9d2d8c
  11 0x0ac46fac     4952/1358

SUMMARY:
sz 16 free 1521 alloc 6735 addr/tot/free 0x806e118/1032/110 0x85e69f0/1032/39 0x85eaaa4/1032/458
0xa1640c8/1032/914 0x810f0f0/1032/0
sz 32 free 498 alloc 10338 addr/tot/free 0x81131a4/516/0 0x85e293c/516/1 0xa16c230/516/8 0xa266dc8/516/489
0xa1e5748/516/0 0xa1d5470
sz 48 free 131 alloc 12597 addr/tot/free 0x8117258/344/6 0x80721cc/344/0 0xa25ec60/344/125 0xa256af8/344/0
0xa246828/344/0 0xa2324a0
sz 64 free 147 alloc 3981 addr/tot/free 0x80f6cb8/258/1 0xa262d14/258/146 0xa25abac/258/0 0xa252a44/258/0
0xa24a8dc/258/0 0xa2427740
sz 80 free 13 alloc 1635 addr/tot/free 0x808a604/206/3 0xa24e990/206/10 0xa23e6c0/206/0 0xa22e3f0/206/0
0xa2221d4/206/0 0xa21a06c/20
sz 96 free 13 alloc 675 addr/tot/free 0xa23a60c/172/13 0xa209d9c/172/0 0x8096820/172/0 0x808e6b8/172/0
sz 112 free 63 alloc 231 addr/tot/free 0x809e988/147/1 0xa1702e4/147/62
sz 128 free 93 alloc 36 addr/tot/free 0x809276c/129/93
sz 160 free 49 alloc 54 addr/tot/free 0x807a334/103/49
sz 192 free 9 alloc 765 addr/tot/free 0x80eeb50/86/9 0x80e69e8/86/0 0x80da7cc/86/0 0x80d2664/86/0 0x80ca4fc/86/0
0x80c6448/86/0 0x80
sz 224 free 44 alloc 29 addr/tot/free 0x8086550/73/44
sz 256 free 53 alloc 11 addr/tot/free 0x8076280/64/53
 status   bytes    blocks   max block
 ------  -------- -------- ----------
   free  15157840       12  10300812
  alloc   3265644       -         -
value = 0 = 0x0
pdt>segPctShow -999
Information on write-protected pages
====================================

PCT Checksum = 0x0783787c    PCT Max Page = 715    PCT Checksum is ok   WrP:EN

Page   Base Address   StoredCksum    CompCksum      Status   Mode
----   ------------   -----------   -----------   ---------  ------

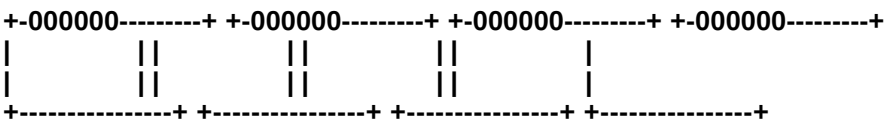
Disk OS Dynamic Segment information
  Segment range: Base address   = 0xacb0000    Top address   = 0xaecffff
  Free mem info: Total bytes    =       828    Largest block =       828
  Allocated    : Total # of bufs=       165
  Unprot. info : Partition ID   = 0x807a0b0  (vxWorks partition)
  Unused pages : Base page=716   Top page=746   Unassigned pages left = 31
```

```
SL-1 Dynamic Memory information
  Base Address = 0x8800000
  Top Address  = 0xa15fffe
  Total pages  = 406
value = 0 = 0x0
pdt>memShow sz
minsize 408 maxWee 256 delta lo/hi 0/0 red 262144
        lo/hi 80a2a38/80a3ffc bs lo/hi 0/0
FREE LIST:
   #       addr      size (dec/hex)
 --- ---------- -----------------
   0 0x080a2a38      5572/15c4
   1 0x080a600c      8176/1ff0
   2 0x080aa00c      8176/1ff0
   3 0x0811b308   4811812/496c24
   4 0x085b48c4      2064/810
   5 0x085b9bb4       464/1d0
   6 0x08650edc       504/1f8
   7 0x08660588      4624/1210
   8 0x086847f0       464/1d0
   9 0x086ad810     10220/27ec
  10 0x0a26ae78  10300812/9d2d8c
  11 0x0ac46fac      4952/1358

SUMMARY:
sz 16 free 1516 alloc 6740 addr/tot/free 0x806e118/1032/105 0x85e69f0/1032/39 0x85eaaa4/1032/458
0xa1640c8/1032/914 0x810f0f0/1032/0
sz 32 free 499 alloc 10337 addr/tot/free 0x81131a4/516/0 0x85e293c/516/1 0xa16c230/516/9 0xa266dc8/516/489
0xa1e5748/516/0 0xa1d5470
sz 48 free 132 alloc 12596 addr/tot/free 0x80721cc/344/1 0x8117258/344/6 0xa25ec60/344/125 0xa256af8/344/0
0xa246828/344/0 0xa2324a0
sz 64 free 147 alloc 3981 addr/tot/free 0x80f6cb8/258/1 0xa262d14/258/146 0xa25abac/258/0 0xa252a44/258/0
0xa24a8dc/258/0 0xa2427740
sz 80 free 13 alloc 1635 addr/tot/free 0x808a604/206/3 0xa24e990/206/10 0xa23e6c0/206/0 0xa22e3f0/206/0
0xa2221d4/206/0 0xa21a06c/20
sz 96 free 13 alloc 675 addr/tot/free 0xa23a60c/172/13 0xa209d9c/172/0 0x8096820/172/0 0x808e6b8/172/0
sz 112 free 63 alloc 231 addr/tot/free 0x809e988/147/1 0xa1702e4/147/62
sz 128 free 93 alloc 36 addr/tot/free 0x809276c/129/93
sz 160 free 49 alloc 54 addr/tot/free 0x807a334/103/49
sz 192 free 9 alloc 765 addr/tot/free 0x80eeb50/86/9 0x80e69e8/86/0 0x80da7cc/86/0 0x80d2664/86/0 0x80ca4fc/86/0
0x80c6448/86/0 0x80
sz 224 free 44 alloc 29 addr/tot/free 0x8086550/73/44
sz 256 free 53 alloc 11 addr/tot/free 0x8076280/64/53
 status   bytes    blocks   max block
 ------  -------- -------- ----------
   free  15157840       12  10300812
  alloc   3265644       -        -
value = 0 = 0x0
pdt> sl1input

pdt>lcdWriteDisplay "This is UGLY"
value = 0 = 0x0
pdt>lcdBuffShow

+-000000---------+ +-000001---------+ +-000002---------+ +-000000---------+
|Running DISK OS | |Running DISK OS | |    This is UGLY| | |               |
'TH 9            | |IOP in slot 17  | |
:|~| |              |
+----------------+ +----------------+ +----------------+ +----------------+
+-000000---------+ +-000000---------+ +-000000---------+ +-000000---------+
|              | |              | |              | |              |
|              | |              | |              | |              |
+----------------+ +----------------+ +----------------+ +----------------+
```



OPTION 11C ONLY COMMANDS

(MAIN CABINET)

```
pdt>foxResetHistoryShow
Last sw reset reason = 0
Hardware reset history:

 68360 Reason    LCA Reason
--------------  ------------
0xC0, Power-up  ----
0xC0, Power-up  ----
0xC0, Power-up  ----
0x80, External  0x04, CP reset
0xC0, Power-up  ----
0xC0, Power-up  ----
value = 4 = 0x4
pdt>showAllA31Info

Address of CABINET_MAP = 0x2036488c
  Value of CABINET_MAP = 0x00000007

A31 device number [0] = Equipped
A31 device number [1] = Equipped
A31 device number [2] = Equipped


A31 signalling statistics
-------------------------

Number of LINT        = 19935954
Number of READY       = 321456168
No of Tx Underflow    = 27992

Set polling statistics
----------------------

Number of poll cycles = 9998977
Last poll state       = 2
Current poll state    = 3
Last poll response    = 0x00009ee8
Current poll response = 0x00009ee8

Last FIFO             = 0x0000991c 0x00001132

No of poll msg sent   = 103705199
Last poll msg         = 0x00000fe8 0x0000ffff 0x0000ffff

No of poll responses  = 54069
No of resp w/o PF     = 89753
No of resp from Poll0 = 282
No of resp from Poll1 = 58
Last Poll FIFO        = 0x0000c005 0x0000ffff
```

A31 Output Queue Information

Total number of output buffers = 1000
Starting address = 0x20424f34
Size of a buffer = 10

Total number of output queues = 10
Starting address = 0x20424e44
Size of a head node = 12

Queue#	#Enqueue	#Requeue	#Dequeue	#EnqProb	#ReqProb	#DeqProb
0	103036073	5760	103041832	0	0	0
1	11499826	3708	11503534	0	0	0
2	3066792	1519	3068311	0	0	0
3	454084	313	454397	0	0	0
4	111468	128	111596	0	0	0
5	54291	70	54361	0	0	0
6	31101	24	31125	0	0	0
7	20372	23	20395	0	0	0
8	29611	0	29611	0	0	0
9	118274007	0	118274007	0	0	0

---

value = 74 = 0x4A
pdt>showA31Config

Address of CABINET_MAP = 0x2036488c
Value of CABINET_MAP = 0x00000007

A31 device number [0] = Equipped
A31 device number [1] = Equipped
A31 device number [2] = Equipped

value = 1 = 0x1
pdt>showApIfData
Auxiliary processor interface

Interface Status : Initialized
Security : INSTALLED
CardLAN : INSTALLED
DebugPort: NOT INSTALLED

Total counts for AP intr = 2178681
Total counts for SC intr = 9216
Total counts for CL intr = 2169465
Total counts for SD intr = 0
Counts for missing = 0
Counts for recovered = 0
Total counts for DP intr = 0
Total counts for Reset intr = 0
Total counts for invalid intr = 0

value = 1 = 0x1
pdt>showA31Counts

A31 signalling statistics

Number of LINT = 19957941
Number of READY = 321791229

```
No of Tx Underflow    = 28020

Set polling statistics
----------------------

Number of poll cycles = 10009382
Last poll state       = 3
Current poll state    = 2
Last poll response    = 0x00009ee8
Current poll response = 0x00009ee8

Last FIFO             = 0x000098a4 0x000013ff

No of poll msg sent   = 103812839
Last poll msg         = 0x000001f1 0x0000ffff 0x0000ffff

No of poll responses  = 54069
No of resp w/o PF     = 89753
No of resp from Poll0 = 282
No of resp from Poll1 = 58
Last Poll FIFO        = 0x0000c005 0x0000ffff

value = 1 = 0x1

pdt>prtSurvConfig
Expansion Cab0   SURV

value = 27 = 0x1B
pdt>showRpcConfig
RPC configuration :
Cabinet type = 0 [MAIN]
QueueID = 0x2034e070
rpcServerTaskId = 0x202c1454
rpcClientTaskId = 0x202c3cfc
value = 29 = 0x1D
pdt>showIPConfigData
EXPANSION DATA: (IPR)
Cabinet#  IP        MAC address           MASK         Network Configuration
-------------------------------------------------------------------------------
1         10.0.1.3   00:90:cf:05:b3:74      255.255.255.0     YES
2         10.0.2.2   00:00:00:00:00:00      255.255.255.0      NO
3         10.0.3.2   00:00:00:00:00:00      255.255.255.0      NO
4         10.0.4.2   00:00:00:00:00:00      255.255.255.0      NO


MAIN DATA: (IPM)
port#  IP            MASK
-----------------------------------------
1         10.0.1.2       255.255.255.0
2         10.0.2.1       255.255.255.0
3         10.0.3.1       255.255.255.0
4         10.0.4.1       255.255.255.0
value = 38 = 0x26
pdt>showHostExp

Cabinet # 0
value = 0 = 0x0

pdt>o135StatFoxCPU


** Option 11C CPU Status **
SRAM: 128 kBytes
```

DRAM: 16 MBytes
Program Store: 32 MBytes
Flash Drive: 16 MBytes
Dual ethernet expansion board #1 installed.
Dual fibre expansion board #2 installed.
PCMCIA card not installed in drive A.
PCMCIA card not installed in drive B.

value = 0 = 0x0
pdt>o135StatIPLAll

IP Exp. 1 : LINK UP

IP Exp. 2 : UNEQ

IP Exp. 3 : LINK DOWN

IP Exp. 4 : UNEQ

IP EXPANSION CABINET

(TO ENTER PDT ON IP EXPANSION NON-SURVIVABLE)

<cntl>ldb <cr>
pass=2tdp22ler

ldb>ipstatShow
total 20
badsum 0
tooshort 0
toosmall 0
badhlen 0
badlen 0
fragments 0
fragdropped 0
fragtimeout 0
forward 0
cantforward 0
redirectsent 0

value = 1 = 0x1

ldb>o135StatFoxCPU

** Option 11C CPU Status **
SRAM: 128 kBytes
DRAM: 16 MBytes
Program Store: 32 MBytes
Flash Drive: 16 MBytes
Expansion board #1 not installed.
Single ethernet expansion board #2 installed.
PCMCIA card not installed in drive A.
PCMCIA card not installed in drive B.

value = 0 = 0x0
ldb>hostShow
hostname inet address aliases
-------- ------------ -------
localhost 127.0.0.1

```
PRIMARY_ENET     10.0.1.2
SECONDARY_ENET   137.135.128.254
LOCAL_PPP_IF     137.135.192.4
REMOTE_PPP_IF    100.1.1.1
255.255.255.0    0.0.0.0
value = 0 = 0x0

ldb>showIPConfigData
EXPANSION DATA: (IPR)
Cabinet#  IP        MAC address           MASK         Network Configuration
-------------------------------------------------------------------------------
0
0
0
0


MAIN DATA: (IPM)
port#  IP            MASK
-----------------------------------------
0
0
0
0
value = 38 = 0x26

ldb>showRpcConfig
RPC configuration :
Cabinet type = 1 [EXPANSION]
QueueID = 0x20344c10
rpcServerTaskId = 0x20334ac8
rpcClientTaskId = 0x203373b8
value = 29 = 0x1D

ldb>o135StatIPLAll

Main cabinet : LINK UP
value = 0 = 0x0
ldb>
ldb>udpstatShow
UDP:
        189 total packets
        91 input packets
        98 output packets
        0 incomplete header
        0 bad data length field
        0 bad checksum
        0 broadcasts received with no ports
        0 full socket
value = 15 = 0xF
ldb>ifShow
lo (unit number 0):
    Flags: (0x69) UP LOOPBACK ARP RUNNING
    Internet address: 127.0.0.1
    Netmask 0xff000000 Subnetmask 0xff000000
    Metric is 0
    Maximum Transfer Unit size is 4096
    22 packets received; 22 packets sent
    0 input errors; 0 output errors
    0 collisions
qu (unit number 0):
    Flags: (0x63) UP BROADCAST ARP RUNNING
    Internet address: 10.0.1.2
```

```
    Broadcast address: 10.0.1.255
    Netmask 0xff000000 Subnetmask 0xfffffe00
    Ethernet address is 00:00:75:44:dd:a4
    Metric is 0
    Maximum Transfer Unit size is 1500
    0 packets received; 8 packets sent
    0 input errors; 8 output errors
    0 collisions
ipDB (unit number 1):
    Flags: (0x63) UP BROADCAST ARP RUNNING
    Internet address: 10.0.1.3
    Broadcast address: 10.0.1.255
    Netmask 0xff000000 Subnetmask 0xffffff00
    Ethernet address is 00:90:cf:05:b3:74
    Metric is 0
    Maximum Transfer Unit size is 1006
    1717 packets received; 1730 packets sent
    0 input errors; 0 output errors
    0 collisions
value = 18 = 0x12


ldb>showHostExp

Cabinet # 0
 ID  Hostname        IP Address
  1  IP_EXPANSION    10.0.1.2

No database file exists for cab#1

No database file exists for cab#2

No database file exists for cab#3

No database file exists for cab#4
OK
value = 3 = 0x3



By Allen Russell
```

AFTER SYSTEM WAS UPGRADED SOME SUPERLOOPS WOULD NOT ENABLE, YOU WOULD RECEIVE AN NPR327 AND BERR705'S POINTING TO A LOOP ADDRESS TWO LOOPS HIGHER THAN THE ACTUAL SUPL NUMBER IE…SUPL 20 WOULD BERR ON LOOP 22 AND SUPL 16 WOULD BERR ON LOOP 18

```
>ld 32
NPR000
.stat 20
SUPER LOOP
FAULTY HW: NO RESPONSE
DSBL     NOT RESPONDING
.disl 20
.
XMI101 20

NPR000
.stat 20
SUPER LOOP
FAULTY HW: NO RESPONSE
DSBL     NOT RESPONDING
.
NPR000
.stat 16
SUPER LOOP
DSBL     RESPONDING
.enll 16
TEST PASSED
XPE0  CONNECTED
XPE1  NOT CONNECTED

OVL021 BKGD

SDL100 BUSY

OVL021 IDLE

SDL100 BUSY

OVL021 IDLE

SDL100 BUSY

SDL000 XNET 16, VERSION 23, MAINT MODE.
  XNET HAS RECEIVED ENABLE MSG
PROCESSING TN....
OK
.
FHW000 18 LOOP RESPONSE TIME OUT

BERR705 EXC 0: Bus Error in Task "tSL1" (0x8d12570)
      SR=0x3010, PC=0x4ff1e58, Addr=0x13021200, SSW=0x1050020


PDT:  login on /sdi/tty4
Password:
BERR600 NCB 0 0: Check Device "LOOP  18" at address 0x8480 in Group 0
      Check IO device, network device, or PS card

BERR600 NCB 0 0: Check Device "LOOP  18" at address 0x8480 in Group 0
      Check IO device, network device, or PS card
```

```
BERR705 EXC 0: Bus Error in Task "tSL1" (0x8d12570)
      SR=0x3010, PC=0x4ff1e58, Addr=0x13021200, SSW=0x1050020

PDT in Progress. Please Wait....

Done!

pdt>
BERR600 NCB 0 0: Check Device "LOOP  18" at address 0x8480 in Group 0
      Check IO device, network device, or PS card

BERR705 EXC 0: Bus Error in Task "tSL1" (0x8d12570)
      SR=0x3010, PC=0x4ff1e58, Addr=0x13021200, SSW=0x1050020

BERR600 NCB 0 0: Check Device "LOOP  18" at address 0x8480 in Group 0
      Check IO device, network device, or PS card

BERR600 NCB 0 0: Check Device "LOOP  18" at address 0x8480 in Group 0
      Check IO device, network device, or PS card

BERR705 EXC 0: Bus Error in Task "tSL1" (0x8d12570)
      SR=0x3010, PC=0x4ff1e58, Addr=0x13021200, SSW=0x1050020

pdt>pua

TRUNK_MONITOR @ 000A55 = 000000
TRUNK_TN @ 000A56 = 000000 000000 000000 000000 000000 000000 000000
DTSL_MONITOR @ 0011C7 = 000000
DTSL_MON_WORDS @ 0011C8 = 000000 000000 000000 000000 000000 000000 000000 000000 000000 000000
SNAP_BUG_RAS_OFS @ 00A5ED = 000000
UIPE_BUG_PRT_CTL @ 0043CF = 000000

USPARE_WORDS[0] @ 000CFE , SIZE 011E      PSPARE_WORDS[0] @ 008FC4 , SIZE 0020
U_JUNK_WORDS[0] @ 0051F1 , SIZE 00C8      P_JUNK_WORDS[0] @ 00AEC6 , SIZE 00C7

Z_PHYS_MEM_LIM  @ 009CE4              LAST_INIT_HOUR @ 00935C
CONFIGLOOP[0] @ 009911 , SIZE 0100       SYS_XPEC[0] @ 009A32 , SIZE 0064
CRSTART @ 008014                      CREND @ 008015
QUEUE_ADDR[0] @ 009063 , SIZE 0025
CDNXPTR[0] @ 009150 , SIZE 0064          SCLMHTPTR @ 00927C
BCS_TEMPL_HDR @ 009584                PBX_TEMPL_HDR @ 009585
LOG_IO_PTR @ 00A80F                   CONFIGTTYOP[0] @ 009811 , SIZE 0010
P_MSDLMISP_MHPTR @ 00A80D                IO_TABLE_PTR  @ 008013
P_VAS_TBL_HDR @ 009CEC                P_BRI_PROTMHTPTR @ 00A639
DTSLHT_PTR @ 009364                   CON_DDCS_FLAG[0] @ 00986B , SIZE 0100

pdt> p 9911 40 <---PRINT THE CONFIGLOOP POINTER


      LOOPS---->1 0        3 2        5 4        7 6        9 8        11 10      13 12      15 14
00009911 : 00000505 00000505 00000D0D 00000D0D 00000A0A 00000A0A 0000020E 00000B0B
                  17 16      19 18      21 20      23 22      25 24      27 26      etc.....
00009919 : 00000D0D 00000D0D 00000D0D 00000D0D 00000B0B 00000B0B 0000020E 00000A0A
00009921 : 00000D0D 00000D0D 00000D0D 00000D0D 00000A0A 00000505 0000020E 00000A0A
00009929 : 00000D0D 00000D0D 00000508 00000508 00000505 0000020E 00000A0A 00000A0A
00009931 : 0000020E 00000A0A 00000D0D 00000D0D 00000D0D 00000D0D 00000D0D 00000D0D
00009939 : 0000020E 00000A0A 00000D0D 00000D0D 00000D0D 00000D0D 00000D0D 00000D0D
00009941 : 00000505 00000505 00000505 00000505 00000505 00000505 00000505 00000505
00009949 : 00000505 00000505 00000505 00000505 00000505 00000505 00000505 00000505
pdt>
DCH: 55  RLS CTS DOWN   TIME:  6:45:48  0/00/0
```

```
DCH: 56  RLS CTS DOWN   TIME:  6:45:48  0/00/0
sl1input

ld 22
PT2000
MARP NOT ACTIVATED
REQ prt
TYPE cequ

CEQU
  MPED 8D
  TERM
  REMO
  TERD
  REMD
  TERQ  052  054 N148 N152
      N153 N154 N155 N156
      N157 N158 N159
  REMQ
  SUPL 004 016 020 032<--LOOPS 16 AND 20 WERE HAVING THE PROBLEM
      036 048 068 076
      084 088 092
  SUPC 072
  SUPF
  XCT   012  028  044  058
       064  080
  TDS  * 012 * 028 * 044 * 058
      * 064 * 080
  CONF * 013 * 029 * 045 * 059
      * 065 * 081
  MFSD * 012 * 028 * 044 * 058
      * 064 * 080

  DLOP  NUM DCH FRM LCMT YALM TRSH
   TRK  061 24  ESF B8S  FDL  00
       062 24  ESF B8S  FDL  00
       063 24  ESF B8S  FDL  00
       082 24  ESF B8S  FDL  00
       083 24  ESF B8S  FDL  00
   PRI  008 24  ESF B8S  FDL  00
       009 24  ESF B8S  FDL  00
       010 24  ESF B8S  FDL  00
       011 24  ESF B8S  FDL  00
       030 24  ESF B8S  FDL  00
       031 23  ESF B8S  FDL  00
       040 24  ESF B8S  FDL  00
       041 24  ESF B8S  FDL  00
       046 23  ESF B8S  FDL  00
       047 24  ESF B8S  FDL  00
       060 24  ESF B8S  FDL  00
       066 24  ESF B8S  FDL  00
       067 24  ESF B8S  FDL  00
  DTIC  014  015  024  025<--DTIC 14 15 SHOULD HAVE 16 AND 17 WITH IT, SINCE YOU CAN
          026  027              ONLY ENTER THE 1ST LOOP NUMBER AND THE SYSTEM ASSIGNS
  EXT0  3PE                    THE NEXT 3 LOOPS, THIS IS NOT POSSIBLE AND IT WOULD OVER-
    CNI  012 000 002           WRITE THE BOUNDERY OF LOOP 16

    CNI  012 001 000
    CNI  013 000 001
  EXT1  3PE
    CNI  012 000 002
    CNI  012 001 000
    CNI  013 000 001
```

```
 MCFN S0B0 S0B1 S1B0 S1B1 S2B0 S2B1 S3B0 S3B1  FLSH   TOTL
      016  000  016  000  016  016  000  000   64     128



pdt>w 9918 <--------------------CORRECTED THE CONFIGURATION RECORD VIA PDT BY WRITING
9918 : 00000B0B/505             THE DTIC LOOPS TO UNEQUIPPED LOOPS
pdt>w 991D
991D : 00000B0B/505 <space>
991E : 00000BOB/505
pdt>sl1input

ld 22
REQ prt
TYPE cequ


CEQU
  MPED 8D
  TERM
  REMO
  TERD
  REMD
  TERQ  052  054 N148 N152
      N153 N154 N155 N156
      N157 N158 N159
  REMQ
  SUPL 004 016 020 032
      036 048 068 076
      084 088 092
  SUPC 072
  SUPF
  XCT   012  028  044  058
       064  080
  TDS  * 012 * 028 * 044 * 058
      * 064 * 080
  CONF * 013 * 029 * 045 * 059
      * 065 * 081
  MFSD * 012 * 028 * 044 * 058
      * 064 * 080

  DLOP  NUM DCH FRM LCMT YALM TRSH
   TRK  061 24  ESF B8S  FDL  00
       062 24  ESF B8S  FDL  00
       063 24  ESF B8S  FDL  00
       082 24  ESF B8S  FDL  00
       083 24  ESF B8S  FDL  00
   PRI  008 24  ESF B8S  FDL  00
       009 24  ESF B8S  FDL  00
       010 24  ESF B8S  FDL  00
       011 24  ESF B8S  FDL  00
       030 24  ESF B8S  FDL  00
       031 23  ESF B8S  FDL  00
       040 24  ESF B8S  FDL  00
       041 24  ESF B8S  FDL  00
       046 23  ESF B8S  FDL  00
       047 24  ESF B8S  FDL  00
       060 24  ESF B8S  FDL  00
       066 24  ESF B8S  FDL  00
       067 24  ESF B8S  FDL  00
  EXT0  3PE
    CNI  012 000 002
```

```
  CNI  012 001 000
  CNI  013 000 001
EXT1  3PE
  CNI  012 000 002
  CNI  012 001 000
  CNI  013 000 001
MCFN S0B0 S0B1 S1B0 S1B1 S2B0 S2B1 S3B0 S3B1  FLSH   TOTL
     016  000  016  000  016  016  000  000   64     128
```

AFTER CHANGING THE DTIC LOOPS TO UNEQUIPPED LOOPS THE SUPERLOOP 16 AND 20 CAME UP AND WORKED WITH NO PROBLEMS

By Allen Russell

CDP CORRUPTION
(DSC's are corrupt)

REQ prt
CUST 0
FEAT dsc

TYPE dsc
DSC 6264

ESN131<----------One indication of corruption
TYPE

>err esn131
>

ESN0131
Undefined steering code (CHG command).

Severity: Info

LD 20

PT0000
MARP NOT ACTIVATED

REQ: PRT
TYPE: DNB
CUST 0
DN
DATE
PAGE
DES

DN 0
CPND
NAME
XPLN 5
DISPLAY_FMT FIRST,LAST
TYPE ATT

DN 1
TYPE SFP

DN 2001
TYPE 500
TN 004 0 07 00 MARP DES TEMP 2 SEP 1997

DN 2005
TYPE CDP
STCD DSC

DN 2006
TYPE CDP
STCD DSC

DN 2007
TYPE 500
TN 004 0 01 02 MARP DES MIKEMD 8 JUN 1998

DN 2008
TYPE 500

```
TN   004 0 08 06  MARP         DES MDMROC    28 SEP 1999

DN   2100
TYPE CDP
STCD DSC

DN   2111
TYPE CDP
STCD DSC

DN   2212
TYPE 500
TN   003 0 03 01  MARP         DES SECURI    19 NOV 1997

DN   2213
TYPE 500
TN   004 0 07 09  MARP         DES MIKEMD    15 OCT 1997

DN   2214
     CPND
       NAME CREST CLASS PHONE
       XPLN 17
       DISPLAY_FMT FIRST,LAST
TYPE 500
TN   004 0 03 15  MARP         DES CLC66      1 OCT 1997

DN   2215
TYPE 500
TN   004 0 03 01  MARP         DES CREST      9 JAN 1998

DN   3321
     CPND
       NAME PUBLISHING CENTER
       XPLN 17
       DISPLAY_FMT FIRST,LAST
TYPE SL1
TN   004 0 10 10 KEY 00 H MARP  DES AD03      21 JUL 1998
     (2616)

DN   3322
     CPND
       NAME TONY KUHN
       XPLN 9
       DISPLAY_FMT FIRST,LAST
TYPE SL1
TN   004 0 11 09 KEY 14   MARP  DES SHOP      17 MAY 2000
     (2616)
TN   004 0 10 00 KEY 00 H       DES AD06      17 MAY 2000
     (2616)

DN   3323
TYPE CDP
STCD DSC

DN   3324
TYPE CDP
STCD

SCH2005 <----------Another indication of corruption
```

ESN_DATA_BLK_PTR (136) ie....word 136 (decimal) of the Customer Data Block

---

```
pdt>dcp 0 <---------display customer pointer

CUST 0 P 05CCDE U 774C18 AUX 05CDE9 ICI 000000 PREXL 000000 BGD 000000

pdt>su
->136 <--------DECIMAL VALUE
value = 136 = 0x88 <-----136 DECIMAL CONVERTS TO 88 HEX
->0x5ccde + 0x88 <------THIS ADDS 88 HEX TO THE CUSTOMER POINTER
->value = 411854 = 0x5cd66
pdt>p 5cd66<------------this value is 5CCDE + 88 in HEX
0005CD66 : 0006415B

pdt>p 6415b b

                                AC1      AC2      SDRR     LOC      RLI      DMI      FCAS
0006415B : 00000083 000642E3 000642F8 000641E4 00065366 000642AC 000654EF 000642CD
                CDP
00064163 : 000655BF 00000000 000641DE
pdt>
pdt>p 655bf fff

              DSC'S          DSC DATA
000655BF : 0000A326 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000655C7 : 00007933 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
000655CF : 00003A43 00000000 0000900E 00000000 00000000 00000000 00000000 00000000
000655D7 : 00001343 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
000655DF : 00002343 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
000655E7 : 0000AA26 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
000655EF : 00008343 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
000655F7 : 00005233 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000655FF : 0000A226 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065607 : 00001A26 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
0006560F : 00001344 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065617 : 00003344 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006561F : 00003365 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065627 : 00004365 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006562F : 0000A926 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065637 : 00001933 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
0006563F : 00002A26 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065647 : 00001836 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
0006564F : 00002143 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065657 : 00003A26 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
0006565F : 00003243 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065667 : 00004243 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
0006566F : 00005243 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065677 : 00006243 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
0006567F : 00007243 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065687 : 0000A422 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006568F : 00005365 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065697 : 0000A626 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
0006569F : 00004A26 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
000656A7 : 00005A26 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
000656AF : 00001156 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000656B7 : 0000A856 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000656BF : 00002365 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000656C7 : 00003626 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000656CF : 00005626 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000656D7 : 00006626 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000656DF : 00006733 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
```

000656E7 : 00008A26 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
000656EF : 00007626 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000656F7 : 00009A26 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
000656FF : 000061A4 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065707 : 000081A4 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
0006570F : 00008626 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065717 : 00009626 00000000 0000900D 00000000 00000000 00000000 0000564B 000002EF
0006571F : 00003143 00000000 0000900E 00000000 00000000 00000000 00000000 00000000
00065727 : 00006A26 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
0006572F : 00007A26 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065737 : 00002726 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
0006573F : 00005726 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065747 : 00006343 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
0006574F : 00003443 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065757 : 00005343 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
0006575F : 00007343 00000000 0000900E 00000000 00000000 00000000 00000000 00000000
00065767 : 00006726 00000000 0000900D 00000000 00000000 000056B6 0000030E 000055FC
0006576F : 00008926 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065777 : 00001524 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006577F : 00002524 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065787 : 00002226 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
0006578F : 00001A56 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065797 : 00002A56 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
0006579F : 00000016 00000000 0000900E 00000002 00000000 00000000 00000000 00000000
000657A7 : 00001A43 00000000 0000900E 00000000 00000000 00000000 00000000 00000000
000657AF : 00005154 00000000 0000900E 00000000 00000000 00000000 00000000 00000000
000657B7 : 00001112 00000000 0000900E 00000000 00000000 00000000 00000000 00000000
000657BF : 0000AA12 00000000 0000900E 00000000 00000000 00000000 00000000 00000000
000657C7 : 00008A43 00000000 0000900E 00000000 00000000 00000000 00000000 00000000
000657CF : 00007A43 00000000 0000900E 00000000 00000000 00000000 00000000 00000000
000657D7 : 00009496 00000000 0000900E 00000000 00000000 00000000 00000000 00000000
000657DF : 00005396 00000000 0000900E 00000000 00000000 00000000 00000000 00000000
000657E7 : 0000AA43 00000000 0000900E 00000000 00000000 00000000 00000000 00000000
000657EF : 00001533 00000000 0000900E 00000000 00000000 00000000 00000000 00000000
000657F7 : 0000A343 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
000657FF : 000046A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065807 : 000066A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006580F : 000065A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065817 : 000053A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006581F : 000044A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065827 : 000084A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006582F : 000063A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065837 : 000017A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006583F : 000097A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065847 : 0000A6A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006584F : 000027A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065857 : 0000A7A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006585F : 000048A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065867 : 000047A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006586F : 00002526 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065877 : 0000A8A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006587F : 000015A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065887 : 000074A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006588F : 000035A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065897 : 000023A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006589F : 000077A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
000658A7 : 00002836 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
000658AF : 00008923 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000658B7 : 0000A3A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
000658BF : 000033A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
000658C7 : 000073A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
000658CF : 000093A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
000658D7 : 000014A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000

000658DF : 000034A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
000658E7 : 000054A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
000658EF : 000064A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
000658F7 : 0000A5A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
000658FF : 000045A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065907 : 000055A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006590F : 000075A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065917 : 000085A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006591F : 000095A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065927 : 000016A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006592F : 000026A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065937 : 000036A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006593F : 000056A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065947 : 000086A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006594F : 000096A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065957 : 000037A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006595F : 000057A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065967 : 000067A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006596F : 000087A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065977 : 000018A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006597F : 000028A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065987 : 000038A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006598F : 000058A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00065997 : 00001936 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006599F : 00004936 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
000659A7 : 00003343 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
000659AF : 000052A6 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000659B7 : 000088A6 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000659BF : 000049A6 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000659C7 : 000079A6 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000659CF : 00001426 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000659D7 : 00002426 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000659DF : 00003426 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000659E7 : 00004426 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000659EF : 00005426 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000659F7 : 00006426 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000659FF : 00007426 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065A07 : 00008426 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065A0F : 00009426 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065A17 : 0000A526 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065A1F : 00001526 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065A27 : 00003526 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065A2F : 00004526 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065A37 : 00006526 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065A3F : 00007526 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065A47 : 00008526 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065A4F : 00009526 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065A57 : 00001626 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065A5F : 00002626 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065A67 : 0000A726 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065A6F : 00001726 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065A77 : 00004726 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065A7F : 00007726 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065A87 : 00008726 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065A8F : 00009726 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065A97 : 00000826 00000000 0000900D 00000001 00000000 00000000 00000000 00000000
00065A9F : 00001926 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065AA7 : 00002926 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065AAF : 00005926 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065AB7 : 00007926 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065ABF : 00009926 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065AC7 : 0000A143 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065ACF : 00001143 00000000 0000900D 00000000 00000000 00000000 00000000 00000000

00065AD7 : 00006154 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00065ADF : 00002AA6 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065AE7 : 00003AA6 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065AEF : 00004AA6 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065AF7 : 00005AA6 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065AFF : 00007AA6 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065B07 : 0000A1A6 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065B0F : 000011A6 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065B17 : 000021A6 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065B1F : 000041A6 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065B27 : 000051A6 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065B2F : 000061A6 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065B37 : 000071A6 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065B3F : 000081A6 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065B47 : 000091A6 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065B4F : 0000A9A6 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065B57 : 000019A6 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065B5F : 000039A6 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065B67 : 00000126 00000000 0000900B 00000001 00000000 00000000 00000000 00000000
00065B6F : 00001226 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065B77 : 00004226 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065B7F : 00005226 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065B87 : 00006226 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065B8F : 00001326 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065B97 : 00002326 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065B9F : 00003326 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065BA7 : 00007326 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065BAF : 00008326 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065BB7 : 00009326 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065BBF : 0000A426 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065BC7 : 00003726 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065BCF : 00004926 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065BD7 : 00004836 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065BDF : 00003233 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065BE7 : 00005143 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065BEF : 00006143 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065BF7 : 00008143 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00065BFF : 00005543 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065C07 : 00003136 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065C0F : 00004336 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065C17 : 0000A1A5 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065C1F : 00009AA5 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065C27 : 00008136 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065C2F : 000031A6 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065C37 : 00007736 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065C3F : 00006AA6 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065C47 : 000043A6 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065C4F : 000083A6 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065C57 : 000024A6 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065C5F : 000094A6 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065C67 : 00007233 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065C6F : 000076A6 00000000 0000900F 00000000 00000000 00000000 00000000 00000000

CORRUPTION BEGINS

The column in BLUE is were the data should be, the column in RED is the data that should be in the BLUE column. So you must write the data in manually to fix the corruption.
SEE BELOW

00065C8F : 0000A2A6 00000000 00000000 00000000 00000000 0000900B 00000000
00065C97 : 000012A6 00000000 00000000 00000000 00000000 0000900B 00000000
00065C9F : 0000AA36 00000000 00000000 00000000 00000000 0000900E 00000000

00065CA7 : 000022A6 00000000 00000000 00000000 00000000 00000000 0000900E 00000000
00065CAF : 000032A6 00000000 00000000 00000000 00000000 00000000 0000900E 00000000
00065CB7 : 000042A6 00000000 00000000 00000000 00000000 00000000 0000900B 00000000
00065CBF : 0000A436 00000000 00000000 00000000 00000000 00000000 0000900B 00000000
00065CC7 : 00003236 00000000 00000000 00000000 00000000 00000000 0000900E 00000000
00065CCF : 00006926 00000000 00000000 00000000 00000000 00000000 0000900D 00000000
00065CD7 : 00004636 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065CDF : 000062A6 00000000 00000000 00000000 00000000 00000000 0000900D 00000000
00065CE7 : 000072A6 00000000 00000000 00000000 00000000 00000000 0000900D 00000000
00065CEF : 000092A6 00000000 00000000 00000000 00000000 00000000 0000900C 00000000
00065CF7 : 000013A6 00000000 00000000 00000000 00000000 00000000 0000900C 00000000
00065CFF : 00005AA2 00000000 00000000 00000000 00000000 00000000 0000900C 00000000
00065D07 : 00006AA2 00000000 00000000 00000000 00000000 00000000 0000900D 00000000
00065D0F : 00003A33 00000000 00000000 00000000 00000000 00000000 0000900B 00000000
00065D17 : 00009533 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065D1F : 00005433 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065D27 : 00004436 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065D2F : 00005436 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065D37 : 00001833 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065D3F : 00003254 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065D47 : 00002336 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065D4F : 00009236 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065D57 : 0000A336 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065D5F : 00006433 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065D67 : 00009433 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065D6F : 00006436 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065D77 : 0000A533 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065D7F : 0000A536 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065D87 : 00004533 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065D8F : 00006833 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065D97 : 00007833 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065D9F : 00004933 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065DA7 : 00003154 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065DAF : 00004233 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065DB7 : 00007733 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065DBF : 00008533 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065DC7 : 00007436 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065DCF : 00008A36 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065DD7 : 00008336 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065DDF : 00009636 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065DE7 : 00004136 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065DEF : 00003536 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065DF7 : 00001336 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065DFF : 00009633 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065E07 : 0000A633 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065E0F : 00002833 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065E17 : 00008243 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065E1F : 00007633 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065E27 : 00009A36 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065E2F : 00001436 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065E37 : 00001633 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065E3F : 00002236 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065E47 : 00008536 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065E4F : 00004536 00000000 00000000 00000000 00000000 00000000 0000900F 00000000
00065E57 : 00001536 00000000 00000000 00000000 00000000 00000000 0000900F 00000000

CORRUPTION ENDS

00065E5F : 00005536 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065E67 : 00003926 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065E6F : 00001A36 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065E77 : 00005A36 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065E7F : 00001136 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065E87 : 00002136 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065E8F : 00006136 00000000 0000900F 00000000 00000000 00000000 00000000 00000000

00065E97 : 00007136 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065E9F : 00007236 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065EA7 : 00002436 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065EAF : 00003436 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065EB7 : 00005136 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065EBF : 00004236 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065EC7 : 00006736 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065ECF : 00005236 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065ED7 : 00006236 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065EDF : 00009536 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065EE7 : 0000A636 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065EEF : 00008733 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065EF7 : 00002433 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065EFF : 00006923 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065F07 : 00006533 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00065F0F : 00009254 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
pdt> w 65c8f

00065C8F : 0000A2A6 / <SPACE>
00065C90 : 00000000 / <SPACE>
00065C91 : 00000000 /900b
00065C92 : 00000000 / <SPACE>
00065C93 : 00000000 / <SPACE>
00065C94 : 00000000 / <SPACE>
00065C95 : 0000900B /0
00065C96 : 00000000 / <SPACE>
00065C97 : 000012A6 / <SPACE OVER AND OVER TO GET TO THE WORD YOU WANT TO CHANGE>
00065C98 : 00000000 / <SPACE>
00065C99 : 00000000 /900b
00065C9A : 00000000 /
00065C9B : 00000000 /
00065C9C : 00000000 /
00065C9D : 0000900B /0
00065C9E : 00000000 /
00065C9F : 0000AA36 /
00065CA0 : 00000000 /
00065CA1 : 00000000 /900e
00065CA2 : 00000000 /
00065CA3 : 00000000 /
00065CA4 : 00000000 /
00065CA5 : 0000900E /0
00065CA6 : 00000000 /
00065CA7 : 000022A6 /
00065CA8 : 00000000 /
00065CA9 : 00000000 /900e
00065CAA : 00000000 /
00065CAB : 00000000 /
00065CAC : 00000000 /
00065CAD : 0000900E /0
00065CAE : 00000000 /
00065CAF : 000032A6 /
00065CB0 : 00000000 /
00065CB1 : 00000000 /900e
00065CB2 : 00000000 /
00065CB3 : 00000000 /
00065CB4 : 00000000 /
00065CB5 : 0000900E /0
00065CB6 : 00000000 /
00065CB7 : 000042A6 /
00065CB8 : 00000000 /
00065CB9 : 00000000 /900b
00065CBA : 00000000 /
00065CBB : 00000000 /

00065CBC : 00000000 /
00065CBD : 0000900B /0
00065CBE : 00000000 /
00065CBF : 0000A436 /
00065CC0 : 00000000 /
00065CC1 : 00000000 /900b
00065CC2 : 00000000 /
00065CC3 : 00000000 /
00065CC4 : 00000000 /
00065CC5 : 0000900B /0
00065CC6 : 00000000 /
00065CC7 : 00003236 /
00065CC8 : 00000000 /
00065CC9 : 00000000 /900e
00065CCA : 00000000 /
00065CCB : 00000000 /
00065CCC : 00000000 /
00065CCD : 0000900E /0
00065CCE : 00000000 /
00065CCF : 00006926 /
00065CD0 : 00000000 /
00065CD1 : 00000000 /900d
00065CD2 : 00000000 /
00065CD3 : 00000000 /
00065CD4 : 00000000 /
00065CD5 : 0000900D /0
00065CD6 : 00000000 /
00065CD7 : 00004636 /
00065CD8 : 00000000 /
00065CD9 : 00000000 /900f
00065CDA : 00000000 /
00065CDB : 00000000 /
00065CDC : 00000000 /
00065CDD : 0000900F /0
00065CDE : 00000000 /
00065CDF : 000062A6 /
00065CE0 : 00000000 /
00065CE1 : 00000000 /900d
00065CE2 : 00000000 /
00065CE3 : 00000000 /
00065CE4 : 00000000 /
00065CE5 : 0000900D /0
00065CE6 : 00000000 /
00065CE7 : 000072A6 /
00065CE8 : 00000000 /
00065CE9 : 00000000 /900d
00065CEA : 00000000 /
00065CEB : 00000000 /
00065CEC : 00000000 /
00065CED : 0000900D /0
00065CEE : 00000000 /
00065CEF : 000092A6 /
00065CF0 : 00000000 /
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00065CF3 : 00000000 /
00065CF4 : 00000000 /
00065CF5 : 0000900C /0
00065CF6 : 00000000 /
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00065CF8 : 00000000 /
00065CF9 : 00000000 /900c
00065CFA : 00000000 /

00065CFB : 00000000 /
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00065CFD : 0000900C /0
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00065D00 : 00000000 /
00065D01 : 00000000 /900c
00065D02 : 00000000 /
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00065D05 : 0000900C /0
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00065D07 : 00006AA2 /
00065D08 : 00000000 /
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00065D17 : 00009533 /
00065D18 : 00000000 /
00065D19 : 00000000 /900f
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00065D1F : 00005433 /
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00065D23 : 00000000 /
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00065D43 : 00000000 /
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00065D53 : 00000000 /
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CONTINUE ON UNTILL YOU GET FINISH THE CORRUPT PORTION
pdt> p 655bf fff

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0006603F : 000042A5 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066047 : 000052A5 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006604F : 000062A5 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066057 : 000072A5 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006605F : 000082A5 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066067 : 00005636 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006606F : 000011A5 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066077 : 00008AA5 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006607F : 00001AA5 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066087 : 00002AA5 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006608F : 00003AA5 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066097 : 00004AA5 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006609F : 00008436 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000660A7 : 00009436 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000660AF : 00002536 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000660B7 : 00007536 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000660BF : 0000A736 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000660C7 : 00009836 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000660CF : 0000A936 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000660D7 : 00002936 00000000 0000900F 00000000 00000000 00000000 00000000 00000000

000660DF : 00003936 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000660E7 : 00006936 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000660EF : 00007936 00000000 0000980F 00000000 00000000 00000000 00000000 00000000
000660F7 : 00008936 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000660FF : 00009936 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066107 : 00001923 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006610F : 00004923 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066117 : 00007923 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006611F : 00005323 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066127 : 0000A833 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006612F : 00002633 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066137 : 00003633 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006613F : 00004633 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066147 : 00004733 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006614F : 00005733 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066157 : 00008833 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006615F : 00002933 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066167 : 00006933 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006616F : 00008933 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066177 : 00006A43 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006617F : 00009A43 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066187 : 00007143 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006618F : 0000A243 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066197 : 00009243 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006619F : 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
000661A7 : 00005AA5 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000661AF : 00006AA5 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000661B7 : 00007AA5 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000661BF : 000021A5 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000661C7 : 000061A5 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000661CF : 00000000 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000661D7 : 00000000 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000661DF : 00000000 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000661E7 : 00000000 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
000661EF : 00000000 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
000661F7 : 00000000 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
000661FF : 00000000 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00066207 : 00000000 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
0006620F : 00000000 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00066217 : 00000000 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
0006621F : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066227 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006622F : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066237 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006623F : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066247 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006624F : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066257 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006625F : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066267 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006626F : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066277 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006627F : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066287 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006628F : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066297 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006629F : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000662A7 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000662AF : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000662B7 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000662BF : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000662C7 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000662CF : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000

000662D7 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000662DF : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000662E7 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000662EF : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000662F7 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000662FF : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066307 : 00003923 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006630F : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066317 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006631F : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066327 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006632F : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066337 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006633F : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066347 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006634F : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066357 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006635F : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066367 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006636F : 00000000 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00066377 : 00000000 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006637F : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066387 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006638F : 00000000 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00066397 : 0000A543 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006639F : 00000000 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000663A7 : 00000000 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000663AF : 00002443 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
000663B7 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000663BF : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000663C7 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000663CF : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000663D7 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000663DF : 00009222 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000663E7 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000663EF : 00009143 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
000663F7 : 00003933 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
000663FF : 00002A43 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066407 : 00009833 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006640F : 00002533 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066417 : 00005533 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006641F : 00007A36 00000000 0000900B 00000000 00000000 00000000 00000000 00000000
00066427 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006642F : 00000000 00000000 0000900D 00000000 00000000 00000000 00000000 00000000
00066437 : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006643F : 00000000 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
00066447 : 000092A5 00000000 0000900F 00000000 00000000 00000000 00000000 00000000
0006644F : 000068A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00066457 : 000078A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006645F : 000098A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00066467 : 000029A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006646F : 000059A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00066477 : 000069A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
0006647F : 000089A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000
00066487 : 000099A6 00000000 0000900C 00000000 00000000 00000000 00000000 00000000

By Allen Russell

RLS25-NCID PKG

**A patch is being written, for now if you have a problem dialing
a particular number within the same NPA and NXX and are tandeming from one
M1 to another M1 and out, ie.....908-732-9000 works but 908-732-7000 does not,
you can turn off pkg247(in the originating switch) as a work around.
The senerio involved here was OPT11C tied to an OPT61C tied to SPRINT,
calls from the OPT11C ISDN to the OPT61C ISDN to SPRINT,
some would work, some would not, all worked from the OPT61C.**

These messages are the outbound portion of the tandem call on the option 11c end.

```
            (LEVEL 0 MESSAGING)
DCH 0 OMSG  SETUP    REF 00000048 CH 13 24 TOD  12:14:10 CK E7D5D4D2
FEAT :NCID<--------NCID
CALLING #:5026347021     NUM PLAN: E164
CALLED  #:19087302202    NUM PLAN: E164


        (LEVEL 2 MESSAGING)
DCH 0 OMSG SETUP    REF 0000000A CH 12 10 TOD  12:47:30 CK E812D8DD
HEADER:01 00 00 3E 08 01 0A 05
BCAP:04 03 80 90 A2
CHID:18 04 E9 80 83 0A
                    _________________FA=NCID
                    |
FAC :1C 11 11 FA A1 0D 02 01 01 02 02 01 00 CC
         04 00 00 06 02
CLNG:6C 0C 21 A0 35 30 32 36 33 34 37 30 32 31
CLED:70 0C A1 31 39 30 38 37 33 30 32 32 30 32

DCH 0 IMSG CALLPROC REF 0000000A CH 12 10 TOD  12:47:30 CK E812DA47
HEADER:2F 00 00 0B 08 02 80 0A 02
CHID:18 04 E9 80 83 0A

DCH 0 IMSG DISC     REF 0000000A CH 12 10 TOD  12:47:30 CK E812E2DF
HEADER:2F 00 00 09 08 02 80 0A 45
CSE :08 02 81 9C

DCH 0 OMSG RELEASE  REF 0000000A CH 12 10 TOD  12:47:30 CK E812E2E8
HEADER:01 00 00 04 08 01 0A 4D

DCH 0 IMSG REL COMP REF 0000000A CH 12 10 TOD  12:47:30 CK E812E3B9
HEADER:2F 00 00 04 08 01 8A 5A
```

By Allen Russell

LOADING PATCHES ON IP EXPANSION CABINETS FROM THE MAIN

```
pdt>cpload m1234 P15960A.11C
MAIN
----
Loading patch "c:/u/patch/P15960A.11C"...done.

EXPANSION 1
-----------
Transferring patch "c:/u/patch/P15960A.11C"...done.
Loading patch "c:/u/patch/P15960A.11C"...done.

EXPANSION 2
-----------
Transferring patch "c:/u/patch/P15960A.11C"...done.
Loading patch "c:/u/patch/P15960A.11C"...done.

EXPANSION 3
-----------
Transferring patch "c:/u/patch/P15960A.11C"...done.
Loading patch "c:/u/patch/P15960A.11C"...done.

EXPANSION 4
-----------
Transferring patch "c:/u/patch/P15960A.11C"...done.
Loading patch "c:/u/patch/P15960A.11C"...done.

Summary for cpload command:
      +-----+-----+-----+-----+-----+
      |MAIN |EXP 1|EXP 2|EXP 3|EXP 4|
      +-----+-----+-----+-----+-----+
      | OK  | OK  | OK  | OK  | OK  |
      +-----+-----+-----+-----+-----+
  (OK: successfully processed, ERR: error occurred, FATAL: fatal error occurred)

pdt>
```

10.8 Debugging Facilities

10.8.1 PDT Access

The existing Option 11C escape sequence ^p^d^t causes pdt at the Main to be invoked, regardless of the cabinet to which the TTY from which the escape sequence was issued is directly connected.
If access to the local debug of an IP Expansion cabinet is required from a TTY in that expansion cabinet, it is invoked through the escape sequence ^l^d^b (Local DeBug)
When in slave mode, the SL-1 application of the IP Expansion cabinet is not accessible. The sl1input command is blocked from ldb. To gain access to the SL-1 application of the Main cabinet from either pdt or ldb, the exit command should be used.
The Rls23 System Access Enhancements feature which allows the pdt password to be changed does not impact the pdt password of the IP Expansion cabinet.
The local debug of an IP Expansion cabinets can be “remotely” accessed from the Main through the use of rlogin over the IP link from the Main. All local debug commands, including those for restarting the system, can then be accessed.

10.9 Enhanced Maintenance

10.9.1 Patching of the IP Expansion

10.9.1.1 Description of centralized patching

IP Expansion cabinets contain Option 11C X11 software, thus, as with the Main cabinet, may re-quire patches from time to time. The purpose of the centralized patching utility is to help the crafts-man with the maintenance of these patches on the Main cabinet and on any of its IP Expansion cabinets, without having to connect locally to each IP Expansion cabinet. Patch administration is done on the Main and automatically performed (as long as the IP links are up and the software ver-sions

match) on the IP Expansion cabinets on which patching is required. Existing patch com-mands (pload, pstat, pins, poos, pout) are not impacted by this functionality and remain available. Communication between the Main cabinet and the IP Expansion cabinets is done via the IP link. For patch loading (cpload), a file transfer is performed using the Trivial ftp protocol.

10.9.1.2 New commands: cpload, cpout, cpins, cpoos, cpstat

This new patching functionality introduces five new commands, with a syntax very close to the ex-isting ones (pload, pout, pins, poos, pstat). There are two major changes:
1. Patches are not identified by a handle; due to the fact that a patch can be loaded on an IP Ex-pansion with a local handle different from that of the Main, it is difficult to provide a "global" handle for a patch.
2. It is possible to define the IP expansion(s) on which each command shall be performed. Patches are assumed to be on the main in c:/u/patch.
Parameter <patchfile> is assumed to be a patch file without any path indication (for example lin5311.p is valid and c:/u/patch/lin5311.p is not valid)
Parameters m, 1, 2, 3 and 4 stand respectively for main cabinet, expansion 1, expansion 2, expan-sion 3 and expansion 4. If none of these parameters are given then default option m1234 is as-sumed (meaning that command is applied to the main and all its IP Expansion cabinets). Note that the parameters are not order or case sensitive.
Given below is the syntax and the function of these five new commands.

• **cpload**

Syntax: cpload [m][1][2][3][4] [<patchfile> | all]

Purpose: Patch is transferred (if applies to an expansion) and loaded. If all is passed, then all patches in c:/u/patch are transferred (if on an expansion) and loaded. If no patch file is passed, then, as for the pload command, the craftsperson is prompted for the patch file name, retain, sysload vulnerable days, number of inits and number of days. Note that this is the only way to modify those last four parameters. Note again that patch and IP expansion software release matching is tested before transferring, along with the existence of the patch on the IP Expansion (patch must not be already loaded). If all criteria is met, the patch(es) will be downloaded as long as the link to the IP Expansion is up, regardless of whether or not the IP Expansion is in normal or survival mode.

Examples:

cpload m12 all - Load all patches on c:/u/patch/ on the main and on expansions 1 & 2.
cpload 4 - Prompts user for patch parameters (patch file name, sysld vuln days, # of inits...) and loads it into expansion 4.
cpload digpr311.p - Loads patch digpr311.p on the main and on all expansions.

•**cpout**

Syntax: cpout [m][1][2][3][4] <patchfile>|all

Purpose: Unloads previously loaded patch. If all is passed, then all loaded patches are unloaded from main and/or IP Expansion(s).

Examples:

cpout m1 all - Unloads all loaded patches on expansion 1 and on the main.
cpout digpr311.p - Unloads patch digpr311.p from main and all expansions.

•**cpins**

Syntax: cpins [m][1][2][3][4] <patchfile> | all

Purpose: Activates previously loaded patches. Note that patchfile is mandatory (unless all is specified), and must not be confused with the <handle> argument of the pins command. Note that in case of memory conflict (two patches overlap for example), the craftsperson is notified but not prompted for any solution. If all is passed instead of the file name, all loaded patches are activated

Examples:

cpins glob2311.p - Activates previously loaded patch glob2311.p on the main and all its expansions.
cpins 12 lin5311.p - Activates lin5311.p on expansions 1 & 2.

•**cpoos**

Syntax: cpoos [m][1][2][3][4] <patchfile> | all

Purpose: Deactivates previously activated patch. If all is passed instead of the file name, all activated patches are deactivated.

Examples:
cpoos glob2311.p - Deactivates previously activated patch glob2311.p on the main and all its expansions.
cpoos 12 lin5311.p - Deactivates lin5311.p on expansions 1 & 2.
cpoos 1 all - Deactivates all loaded patches on expansion 1.

•cpstat
Syntax: cpstat [m][1][2][3][4] [<patchfile>]
Purpose: Give patch status. The result of this command is the same as the regular pstat: the only difference is that no handle is given. If no patch file is given, then information about all patches is given. If patchfile is given, a table is printed out to summarize the patch's status on the specified IP Expansions and the Main.
Examples:
cpstat - Gives information about all patches on the main and all its expansions.
cpstat m234 - Gives information about all patches on the main and on expansions 2, 3 and 4.
cpstat 143 glob2311.p - Gives information about patch glob2311.p on expansions 1, 3 & 4.

•cplis
Syntax: cplis [m][1][2][3][4] <patchfile>
Purpose: Give patch details. Output is identical to the plis command.
Examples:
cplis glob2311.p - Give details about patch glob2311.p on the main and on all expansions.
cplis 1 glob2311.p - Give details about patch glob2311.p on expansion 1.

10.9.1.3 Errors

The same errors as with the existing patch commands can occur, and there is no difference with the way they are reported. However, due to the centralized mechanism & TCP socket connections, network errors can be reported in addition to the existing error messages (such as "Link between ex-pansion and main is down", or "Cannot create TCP connection").
There also is a time-out for the TCP connection on both sides (main & IP Expansions), so that if the link should fail during transfer, the craftsperson is informed of the unsuccessful operation. Note that in such a case, if one link becomes down, it is still possible to work with the IP Expansion cab-inets whose link is still up.
All the errors are reported in the rpt file, in which it is also written the expansion on which the error occured.
Error messages are added. They are printed to the tty and logged in RPT reports.

Table 37: Patching new error messages

ERROR NO	EVENT
PCH0510	Link errors -- errors that occurred either during socket creation or data transmission
PCH0511	Patch corruption -- errors regarding patch corruption, such as patch data corruption, null pointers, ...
PCH0512	Semaphore -- the patch data cannot be accessed at this moment. This is usually due to the fact that the patch data is being accessed by another patch com-mand. This should be a temporary condition
PCH0513	Unable to write to retention file -- the patch operation has been performed, but it was not possible to up-date the retention file. Thus the patch status (ins, loaded, ...) will not be recovered after an INIT
PCH0514	File error -- errors regarding the patch file (eg. wrong format, file does not exist,...)
PCH0515	Unable to load patch -- an unknown error occurred that is keeping the patch file from being loaded
PCH0516	System limit reached -- too many patches are currently loaded on the system
PCH0517	Release mismatch

-- the patch and system releases do not match. Both releases are dis-played
PCH0518 Memory problems
-- a memory problem occurred (during command “cpins”). The patch cannot be activated.
PCH0519 Patch conflict
-- a conflict has been detected between two patches. Patch names are displayed
PCH0520 Error in patch code
-- the code within the patch could not be executed (during command “cpins”). This may be due to a release mismatch
PCH0521 Server’s task not spawned
-- the server’s task on the IP Expansion could not be spawned
PCH0522 tftp directory could not be added
-- it was not possible to add the default patch directory to the tftp dae-mon. Task is aborted.
PCH0523 Socket error
-- it was not possible to perform basic socket operation in order to com-municate with the Main cabinet. Task is aborted.

10.9.1.4 Summary of Centralized versus Existing Option 11C patching

Since the craftsperson is already used to administrating patches using regular commands, it was intended to keep the syntax and functionality similar for the new commands.
However, there are few differences:
• Handles not used. A patch is always identified by its name. This is true for all the five commands.
• It is not possible to pass patch parameters (retain etc...) through the command line as with pload. In order to modify those parameters, use cpload without filename.
• Craftsman is no longer prompted for confirmation or for conflict resolution. Errors are raised for conflicts, but no solution is proposed

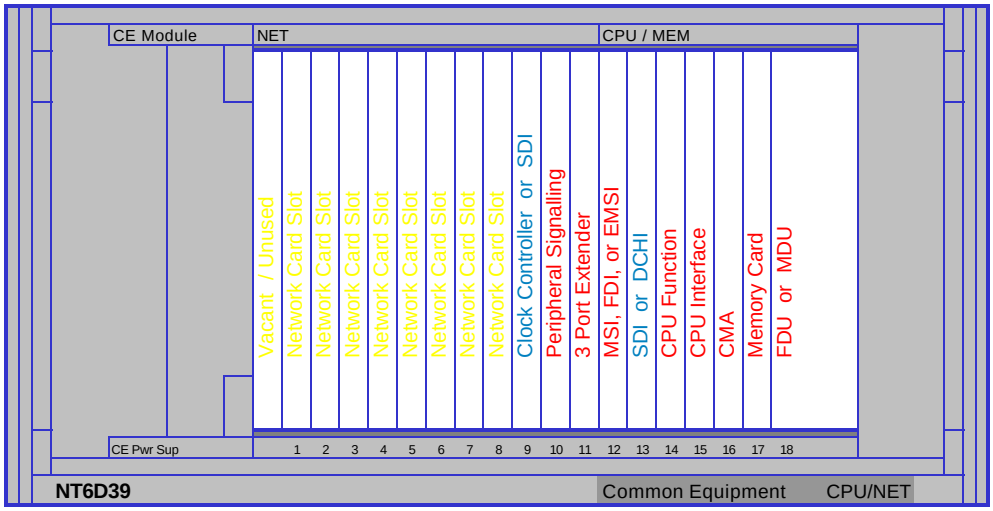
By Allen Russell

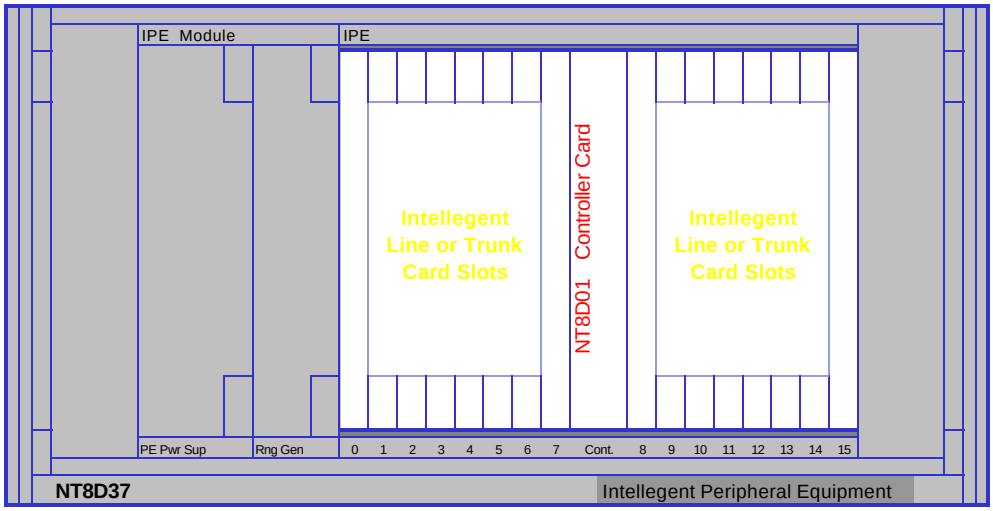
IVD MESSAGES BEING OUTPUT FROM SYSTEM

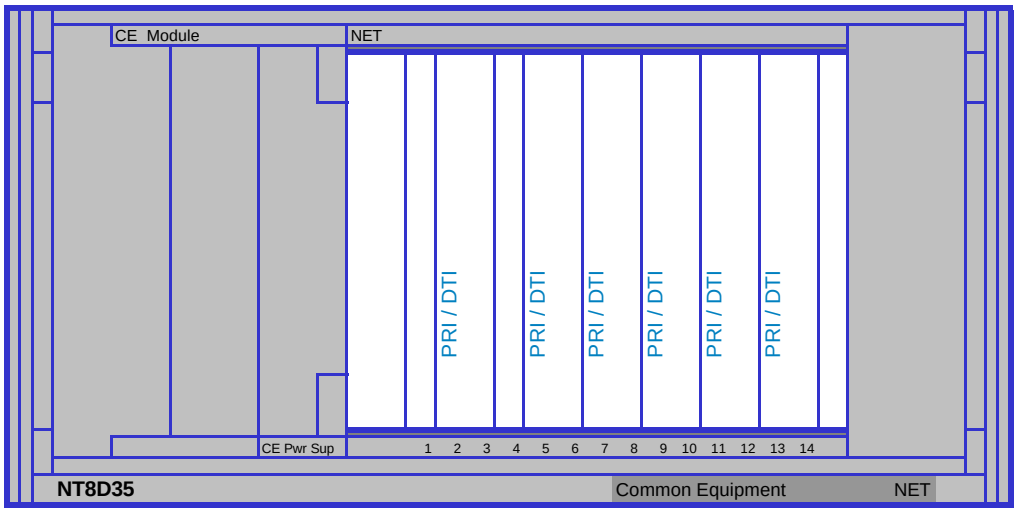
IVD 000 OUT 00000009 0000FF62 000000CF 03689F13
pdt>
pdt>ivm 0 2<----------this turned monitor off
IVD 000 OUT 00000009 0000FF62 0000000F 03689F14
IVD 000 OUT 00000282 0000FF6D 00004009 0368AE2C
IVD 000 OUT 00000282 0000FF6D 00004008 0368CD32
IVD 000 OUT 00000282 0000FF6D 00004009 0368D83B
IVD 000 OUT 00000002 0000FF77 00000A0F 0368D83D
IVD 000 OUT 00000282 0000FF6D 00004009 0368E9F2
IVD 000 OUT 00000002 0000FF77 0000000F 03690144
IVD 000 OUT 00000002 0000FF77 00000A0F 0369053A
IVD 000 OUT 00000002 0000FF77 0000170F 03690562
IVD 000 OUT 00000002 0000FF77 0000170F 0369056B
pdt>
pdt>exit
PDT in Progress. Please Wait....
Done!

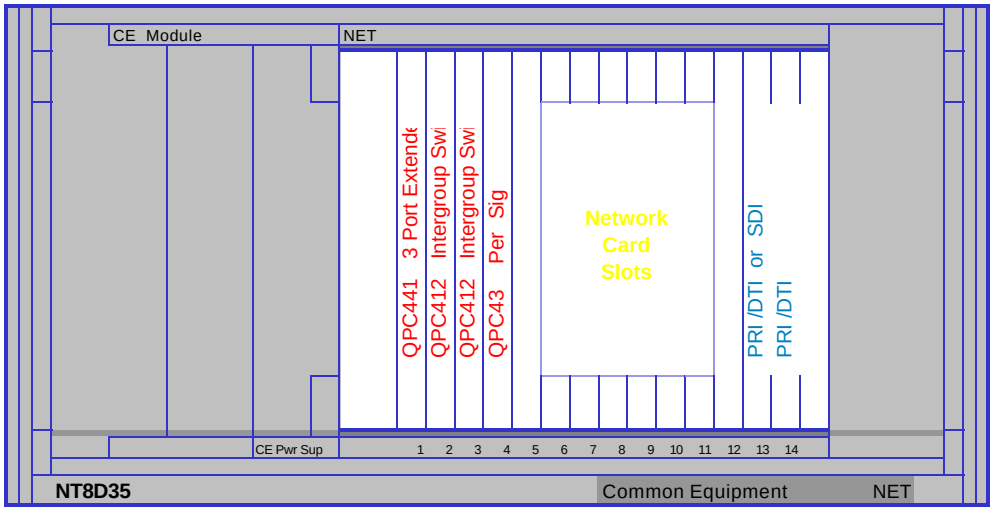
• ivm <X><Y>- This command has the same function as the B command in resident debug on the Option 11E.If a bit is set monitoring will be turned on for that message type. It turns on and off monitoring of IVD messages.
The values for X are.
- 0 turn off monitoring.
- 1 turn on input monitoring.
- 2 turn on output monitoring.
- 3turn on input and output monitoring.
The values for Y are.
- 1 Monitor all channels.
- 2 Monitor only messages for TNs defined in Overlay 48. See below.
The command to turn on specific monitoring in Overlay 48 is:
SETM TNn L S C U
where n is the monitor number, L is loop, S is shelf, C is card and U is unit.

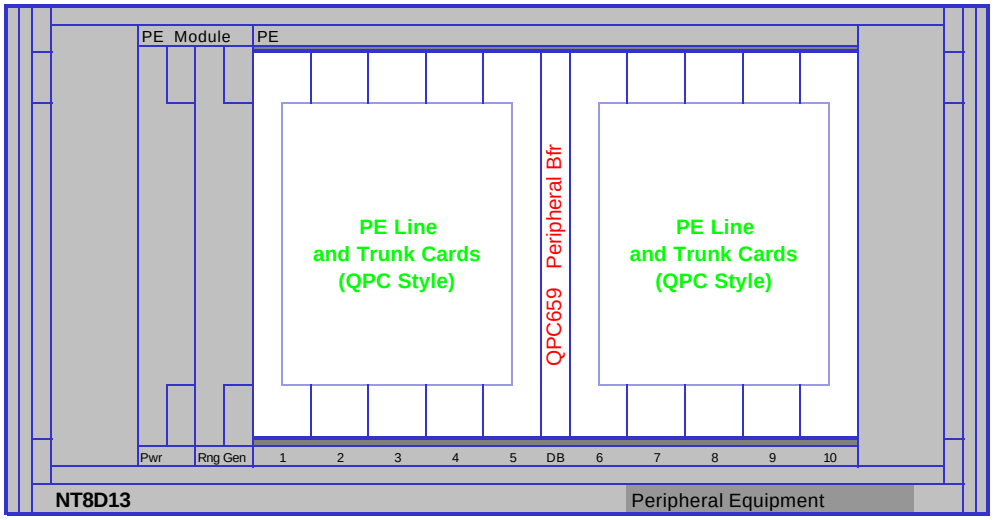
By Allen Russell

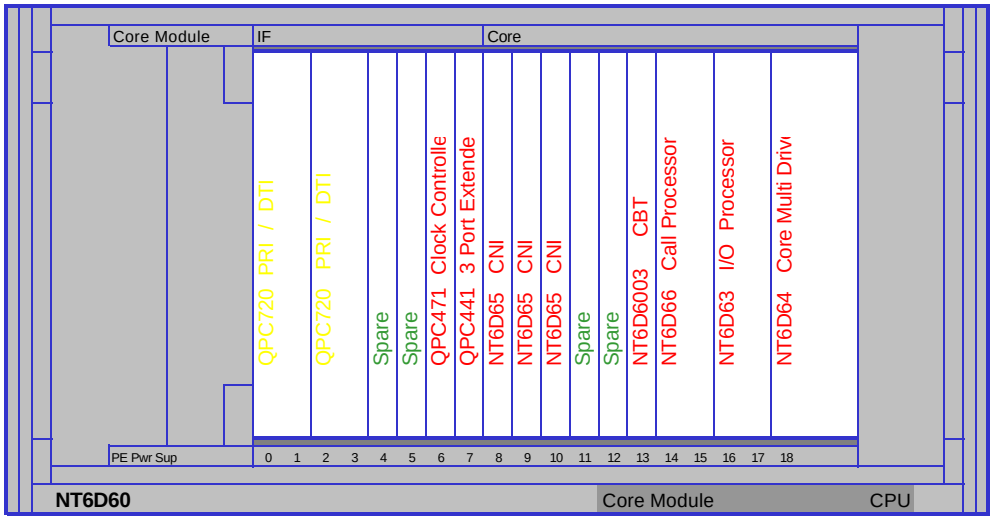

CE Module
NET
CPU / MEM
Vacant / Unused
Network Card Slot
Network Card Slot
Network Card Slot
Network Card Slot
Network Card Slot
Network Card Slot
Network Card Slot
Network Card Slot
Network Card Slot
Clock Controller or SDI
Peripheral Signalling
3 Port Extender
MSI, FDI, or EMSI
SDI or DCHI
CPU Function
CPU Interface
CMA
Memory Card
FDU or MDU
CE Pwr Sup
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
NT6D39
Common Equipment
CPU/NET

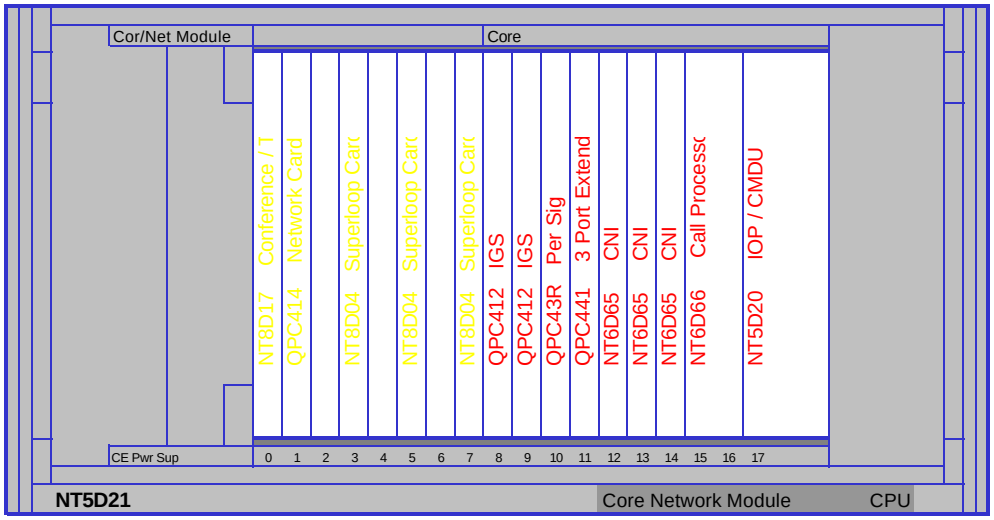

IPE Module
IPE
Intellegent
Line or Trunk
Card Slots
NT8D01 Controller Card
Intellegent
Line or Trunk
Card Slots
PE Pwr Sup
Rng Gen
0 1 2 3 4 5 6 7 Cont. 8 9 10 11 12 13 14 15
NT8D37
Intellegent Peripheral Equipment

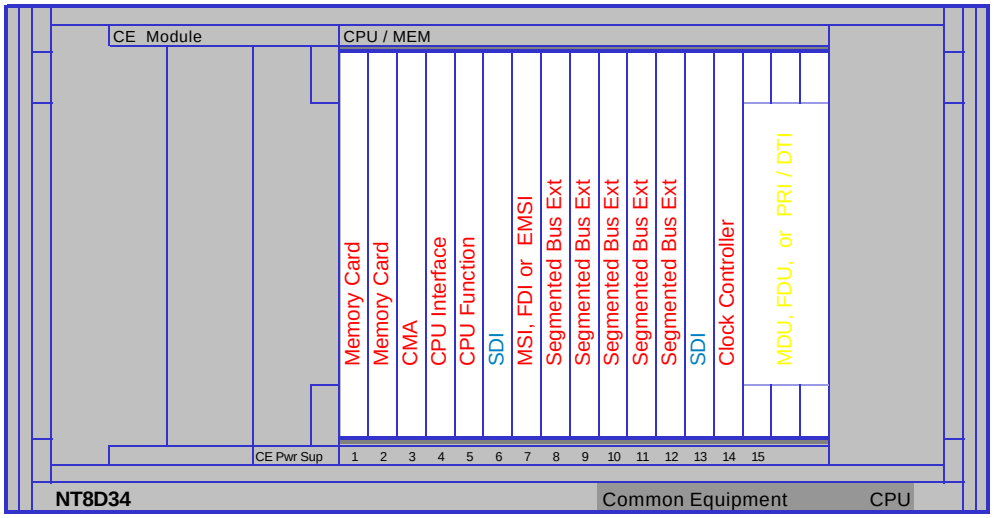

CE Module
NET
PRI / DTI
PRI / DTI
PRI / DTI
PRI / DTI
PRI / DTI
PRI / DTI
CE Pwr Sup
1 2 3 4 5 6 7 8 9 10 11 12 13 14
NT8D35
Common Equipment
NET

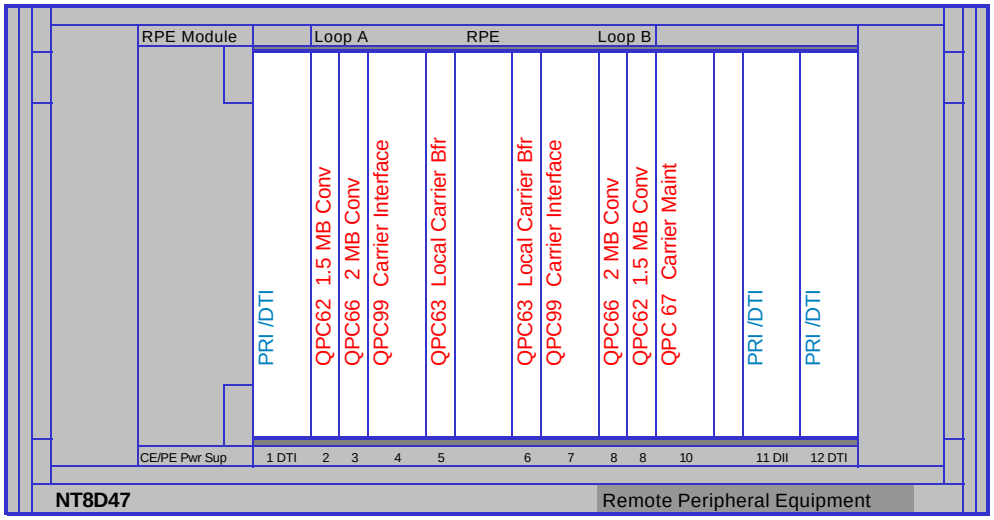

CE Module
NET
QPC441 3 Port Extende
QPC412 Intergroup Swi
QPC412 Intergroup Swi
QPC43 Per Sig
Network
Card
Slots
PRI /DTI or SDI
PRI /DTI
CE Pwr Sup
1 2 3 4 5 6 7 8 9 10 11 12 13 14
NT8D35
Common Equipment
NET

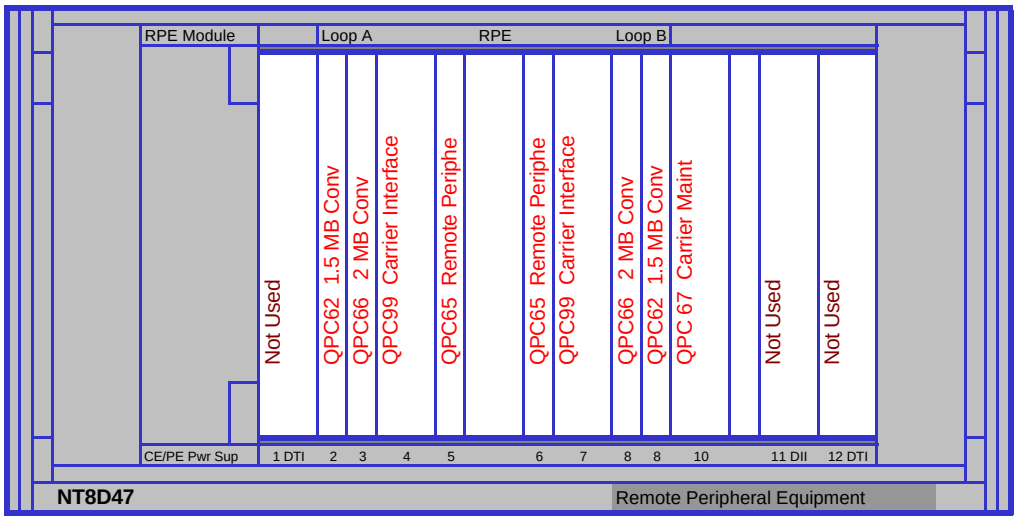

PE Module
PE
PE Line
and Trunk Cards
(QPC Style)
QPC659 Peripheral Bfr
PE Line
and Trunk Cards
(QPC Style)
Pwr
Rng Gen
1
2
3
4
5
DB
6
7
8
9
10
NT8D13
Peripheral Equipment

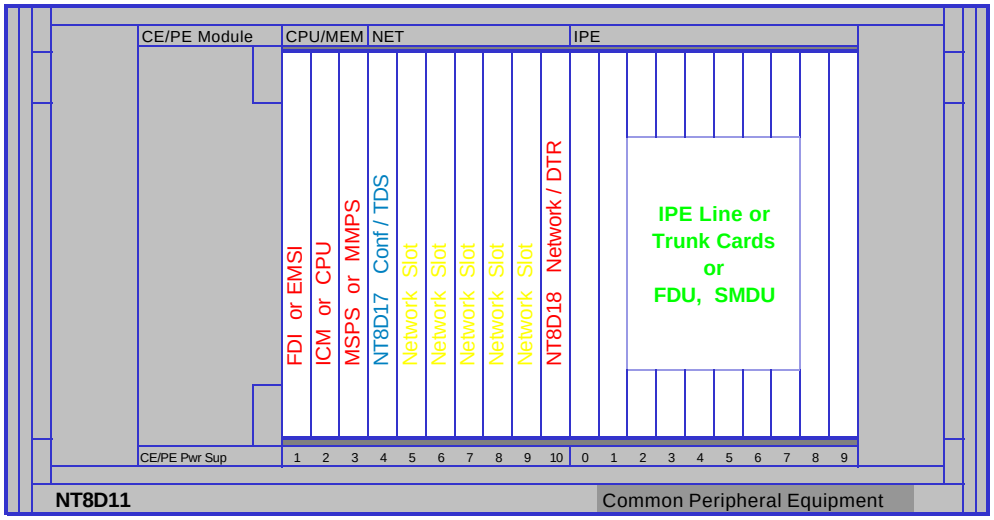

Core Module
IF
Core
QPC720 PRI / DTI
QPC720 PRI / DTI
Spare
Spare
QPC471 Clock Controlle
QPC441 3 Port Extende
NT6D65 CNI
NT6D65 CNI
NT6D65 CNI
Spare
Spare
NT6D6003 CBT
NT6D66 Call Processor
NT6D63 I/O Processor
NT6D64 Core Multi Drive
PE Pwr Sup
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
NT6D60
Core Module
CPU

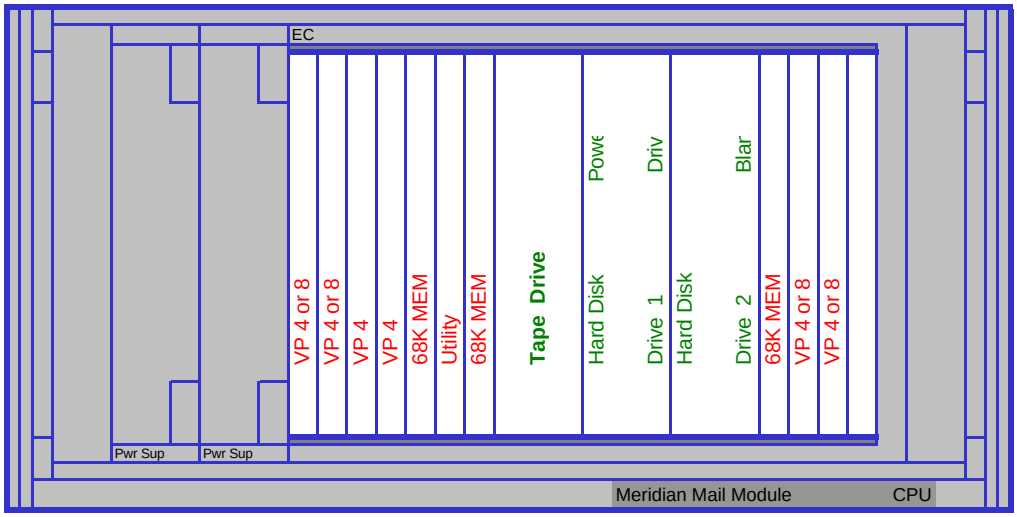

Cor/Net Module
Core
NT8D17 Conference / T
QPC414 Network Card
NT8D04 Supertoop Carc
NT8D04 Supertoop Carc
NT8D04 Supertoop Carc
QPC412 IGS
QPC412 IGS
QPC43R Per Sig
QPC441 3 Port Extend
NT6D65 CNI
NT6D65 CNI
NT6D65 CNI
NT6D66 Call Processc
NT5D20 IOP / CMDU
CE Pwr Sup
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
NT5D21
Core Network Module
CPU

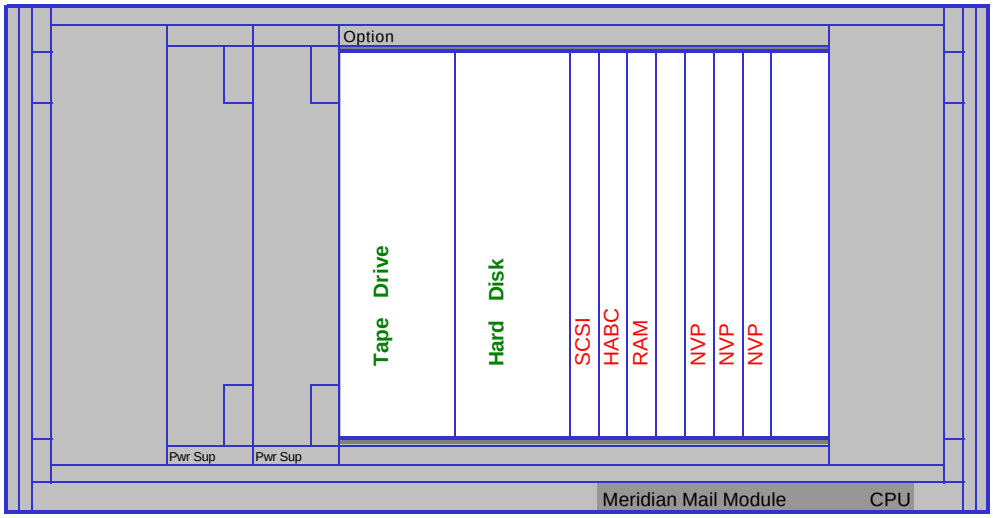

CE Module
CPU / MEM
Memory Card
Memory Card
CMA
CPU Interface
CPU Function
SDI
MSI, FDI or EMSI
Segmented Bus Ext
Segmented Bus Ext
Segmented Bus Ext
Segmented Bus Ext
Segmented Bus Ext
SDI
Clock Controller
MDU, FDU, or PRI / DTI
CE Pwr Sup
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
NT8D34
Common Equipment
CPU

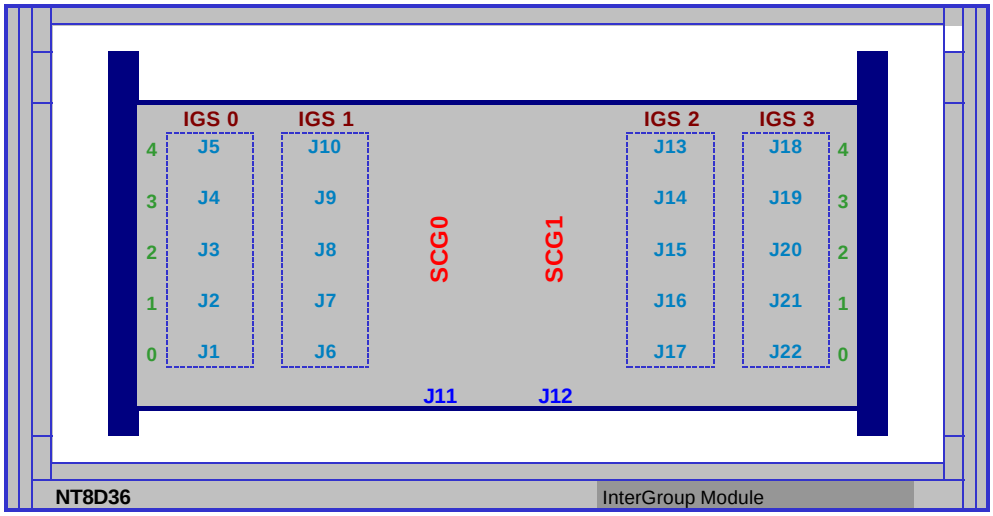

RPE Module
Loop A
RPE
Loop B
PRI /DTI
QPC62 1.5 MB Conv
QPC66 2 MB Conv
QPC99 Carrier Interface
QPC63 Local Carrier Bfr
QPC63 Local Carrier Bfr
QPC99 Carrier Interface
QPC66 2 MB Conv
QPC62 1.5 MB Conv
QPC 67 Carrier Maint
PRI /DTI
PRI /DTI
CE/PE Pwr Sup
1 DTI
2
3
4
5
6
7
8
8
10
11 DII
12 DTI
NT8D47
Remote Peripheral Equipment

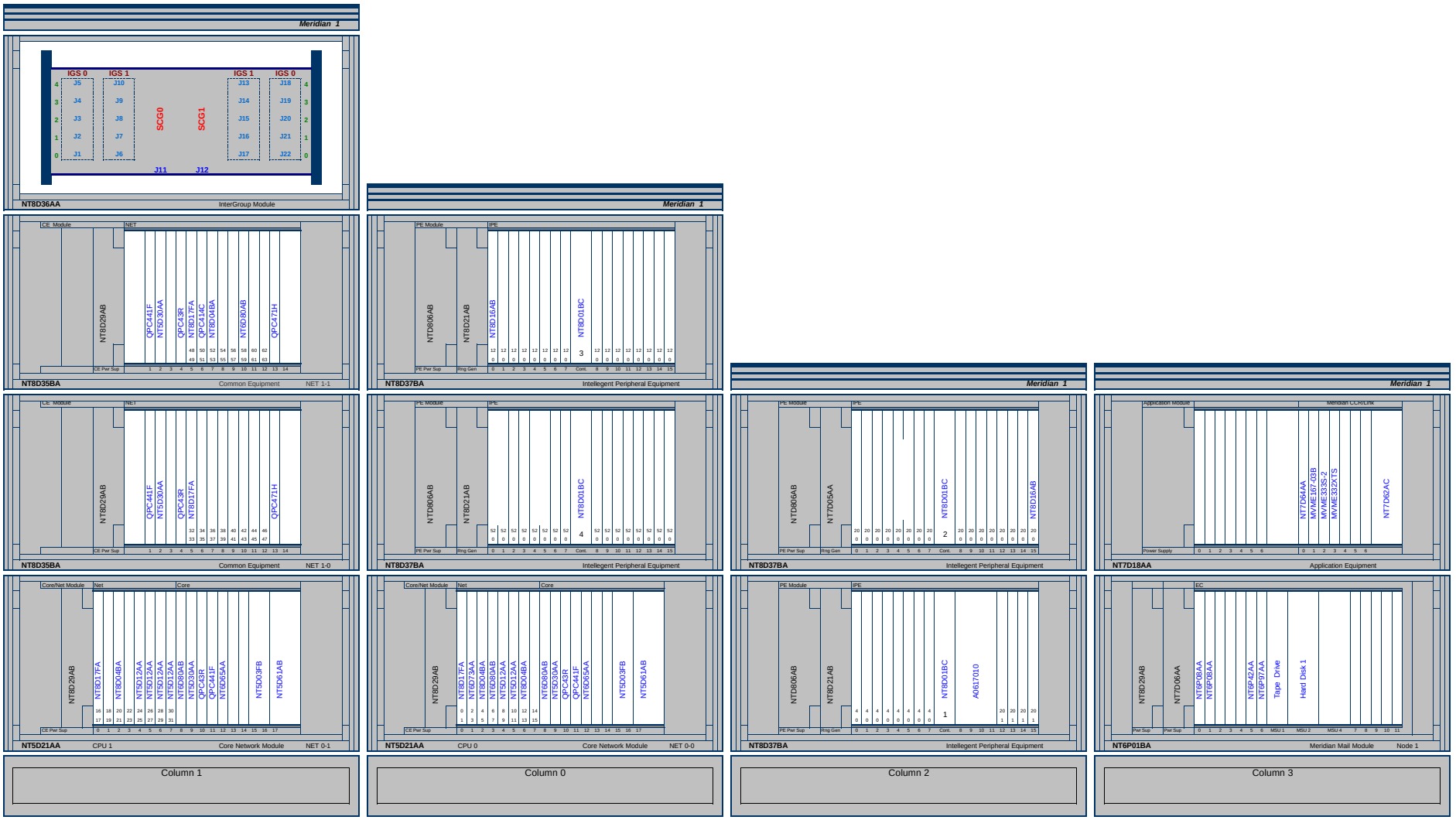

RPE Module
Loop A
RPE
Loop B
Not Used
QPC62 1.5 MB Conv
QPC66 2 MB Conv
QPC99 Carrier Interface
QPC65 Remote Periphe
QPC65 Remote Periphe
QPC99 Carrier Interface
QPC66 2 MB Conv
QPC62 1.5 MB Conv
QPC 67 Carrier Maint
Not Used
Not Used
CE/PE Pwr Sup
1 DTI
2
3
4
5
6
7
8
8
10
11 DII
12 DTI
NT8D47
Remote Peripheral Equipment

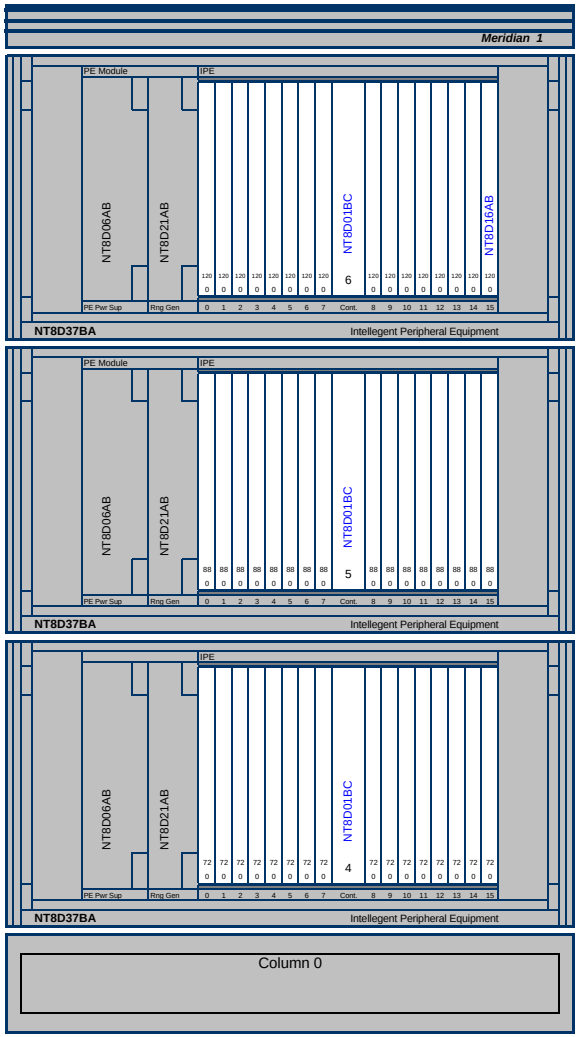

CE/PE Module
CPU/MEM
NET
IPE
FDI or EMSI
ICM or CPU
MSPS or MMPS
NT8D17 Conf / TDS
Network Slot
Network Slot
Network Slot
Network Slot
Network Slot
NT8D18 Network / DTR
IPE Line or
Trunk Cards
or
FDU, SMDU
CE/PE Pwr Sup
1 2 3 4 5 6 7 8 9 10
0 1 2 3 4 5 6 7 8 9
NT8D11
Common Peripheral Equipment

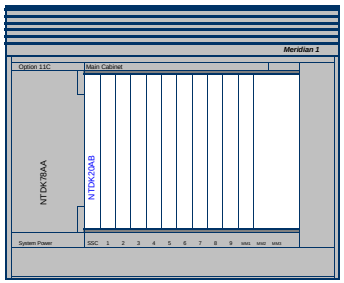

EC
VP 4 or 8
VP 4 or 8
VP 4
VP 4
68K MEM
Utility
68K MEM
Tape Drive
Hard Disk
Drive 1
Hard Disk
Drive 2
68K MEM
VP 4 or 8
VP 4 or 8
Pwr Sup
Pwr Sup
Meridian Mail Module
CPU

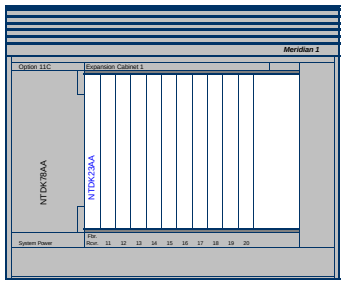

Option
Tape Drive
Hard Disk
SCSI
HABC
RAM
NVP
NVP
NVP
Pwr Sup
Pwr Sup
Meridian Mail Module
CPU

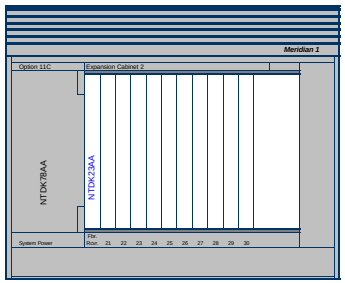

IGS 0
IGS 1
IGS 2
IGS 3
4
3
2
1
0
J5
J4
J3
J2
J1
J10
J9
J8
J7
J6
SCG0
SCG1
J13
J14
J15
J16
J17
J18
J19
J20
J21
J22
J11
J12
NT8D36
InterGroup Module

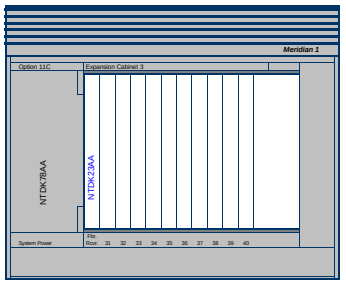

Meridian 1
IGS 0
IGS 1
IGS 1
IGS 0
SCG0
SCG1
J11
J12
NT8D36AA InterGroup Module
CE Module
NET
NT8D29AB
QPC441F
NT5D30AA
QPC43R
NT8D17FA
QPC414C
NT8D04BA
NT6D80AB
QPC471H
CE Pwr Sup
NT8D35BA Common Equipment NET 1-1
PE Module
IPE
NTD806AB
NT8D21AB
NT8D16AB
NT8D01BC
PE Pwr Sup
Rng Gen
Cont.
NT8D37BA Intellegent Peripheral Equipment
NT8D35BA Common Equipment NET 1-0
NT8D37BA Intellegent Peripheral Equipment
NTD806AB
NT7D05AA
NT8D37BA Intellegent Peripheral Equipment
Application Module
Meridian CCR/Link
NT7D64AA
MVME167-03B
MVME333S-2
MVME332XTS
NT7D62AC
Power Supply
NT7D18AA Application Equipment
Core/Net Module
Net
Core
NT8D17FA
NT8D04BA
NT5D12AA
NT5D12AA
NT5D12AA
NT6D80AB
NT5D20AA
QPC43R
QPC441F
NT6D65AA
NT5D03FB
NT5D61AB
CE Pwr Sup
NT5D21AA CPU 1 Core Network Module NET 0-1
NT8D29AB
NT8D17FA
NT6D73AA
NT8D04BA
NT6D80AB
NT5D12AA
NT5D12AA
NT8D04BA
NT6D80AB
NT5D30AA
QPC43R
QPC441F
NT6D65AA
NT5D03FB
NT5D61AB
NT5D21AA CPU 0 Core Network Module NET 0-0
NTD806AB
NT8D21AB
NT8D01BC
A0617010
NT8D37BA Intellegent Peripheral Equipment
EC
NT8D29AB
NT7D06AA
NT6P08AA
NT6P08AA
NT6P42AA
NT6P97AA
Tape Drive
Hard Disk 1
Pwr Sup
NT6P01BA Meridian Mail Module Node 1
Column 1
Column 0
Column 2
Column 3


Meridian 1
PE Module
IPE
NT8D06AB
NT8D21AB
NT8D01BC
NT8D16AB
6
PE Pwr Sup
Rng Gen
Cont.
NT8D37BA
Intellegent Peripheral Equipment
NT8D06AB
NT8D21AB
NT8D01BC
5
NT8D37BA
Intellegent Peripheral Equipment
NT8D06AB
NT8D21AB
NT8D01BC
4
NT8D37BA
Intellegent Peripheral Equipment
Column 0


Meridian 1
Option 11C
Main Cabinet
NTDK78AA
NTDK20AB
System Power
SSC 1 2 3 4 5 6 7 8 9 MM1 MM2 MM3


Meridian 1
Option 11C
Expansion Cabinet 1
NTDK78AA
NTDK23AA
System Power
Rcvr 11 12 13 14 15 16 17 18 19 20


Meridian 1
Option 11C
Expansion Cabinet 2
NTDK78AA
NTDK23AA
System Power
Rcvr 21 22 23 24 25 26 27 28 29 30


Meridian 1
Option 11C
Expansion Cabinet 3
NTDK78AA
NTDK23AA
System Power
Rcvr 31 32 33 34 35 36 37 38 39 40

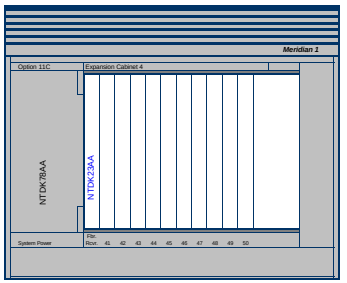

Meridian 1
Option 11C
Expansion Cabinet 4
NTDK78AA
NTDK23AA
System Power
Rcvr 41 42 43 44 45 46 47 48 49 50

Figure 3: CPP Core side of the core/net shelf

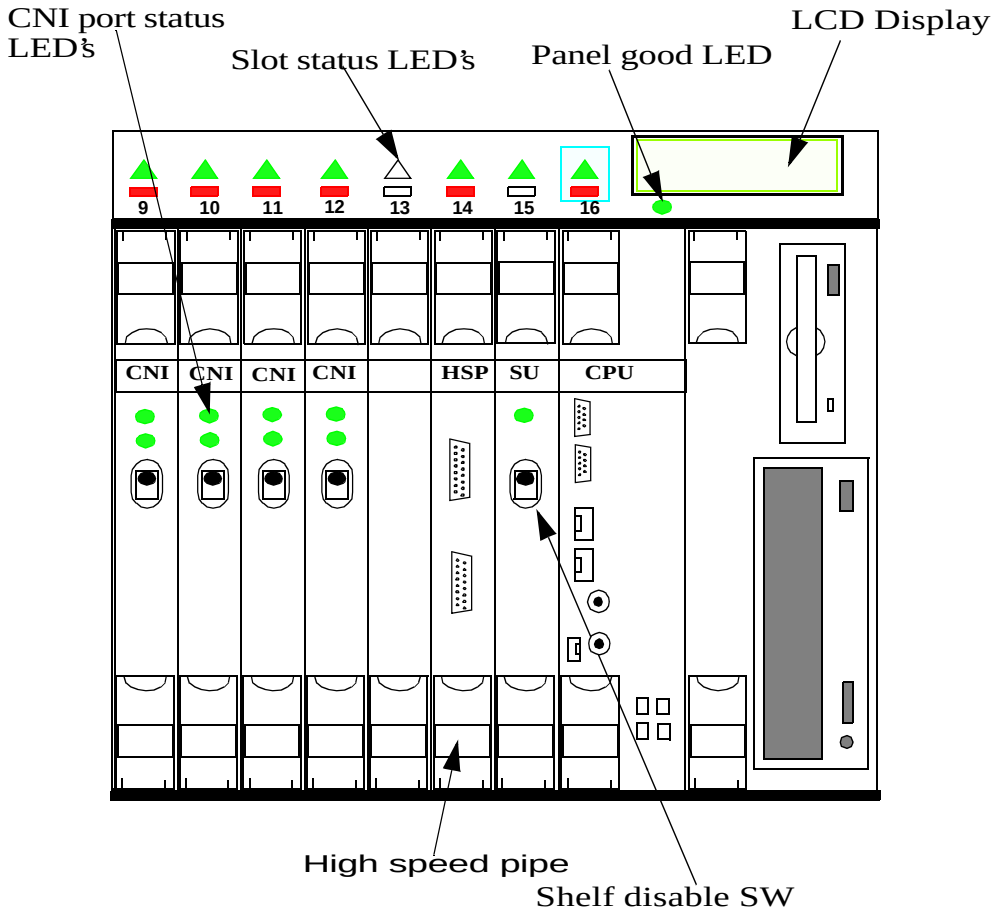
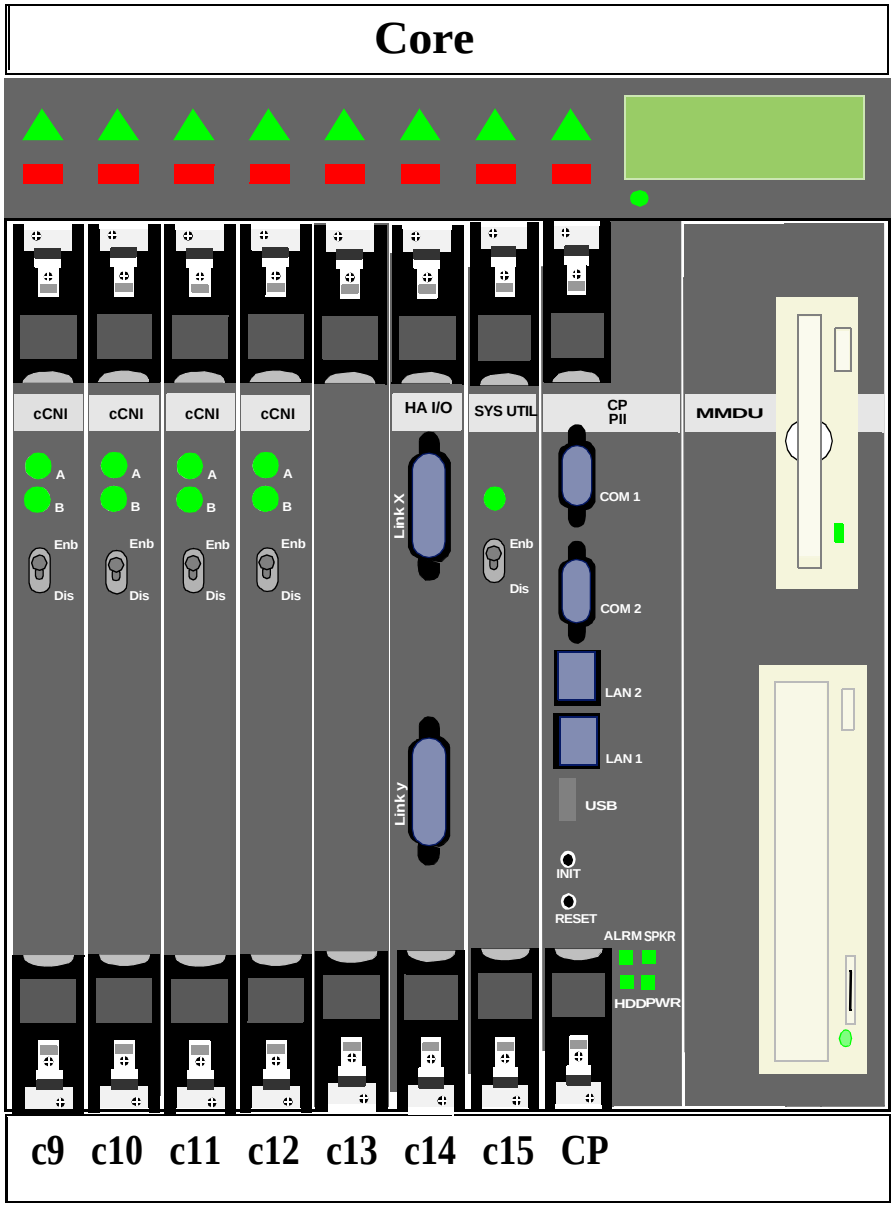
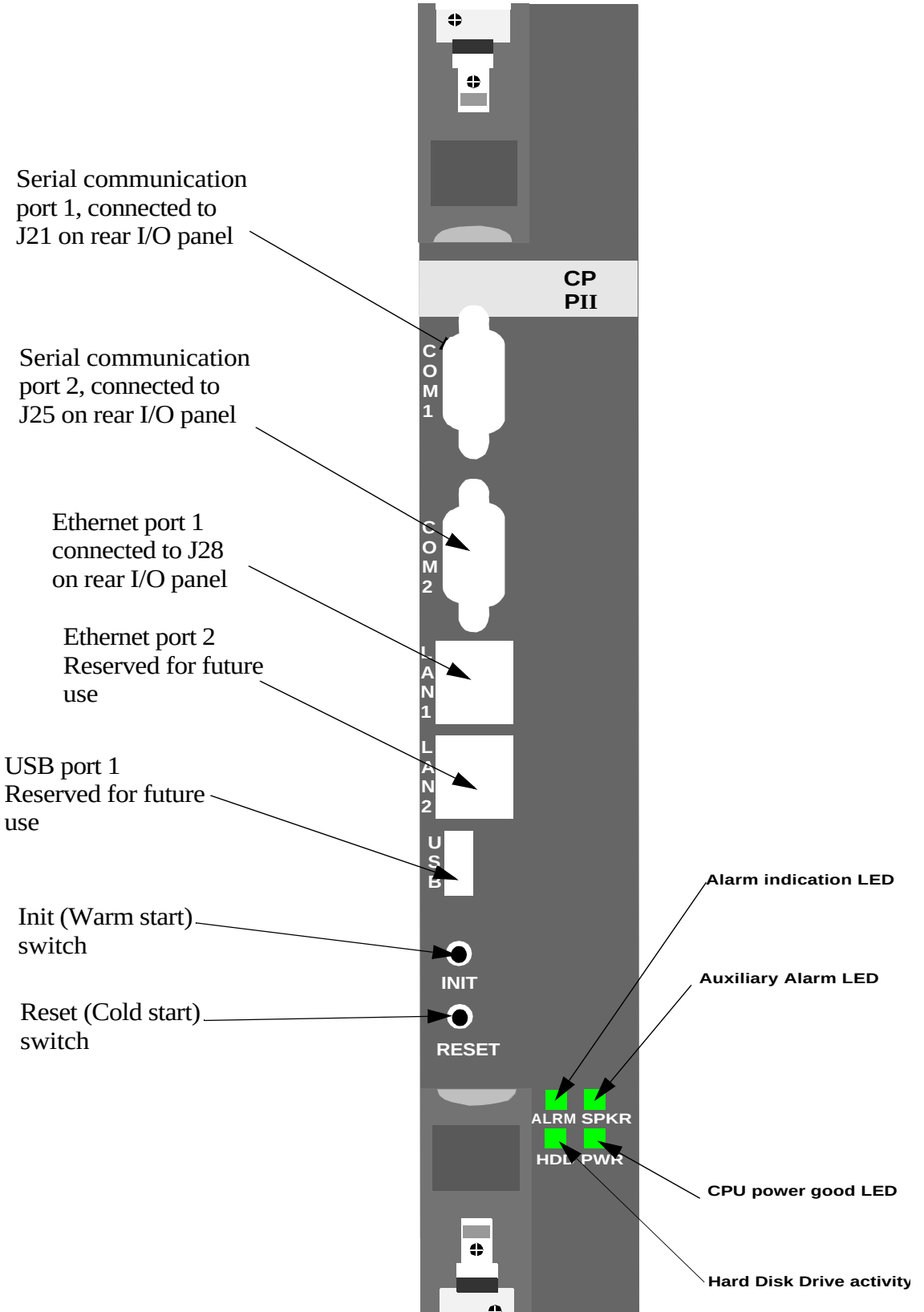
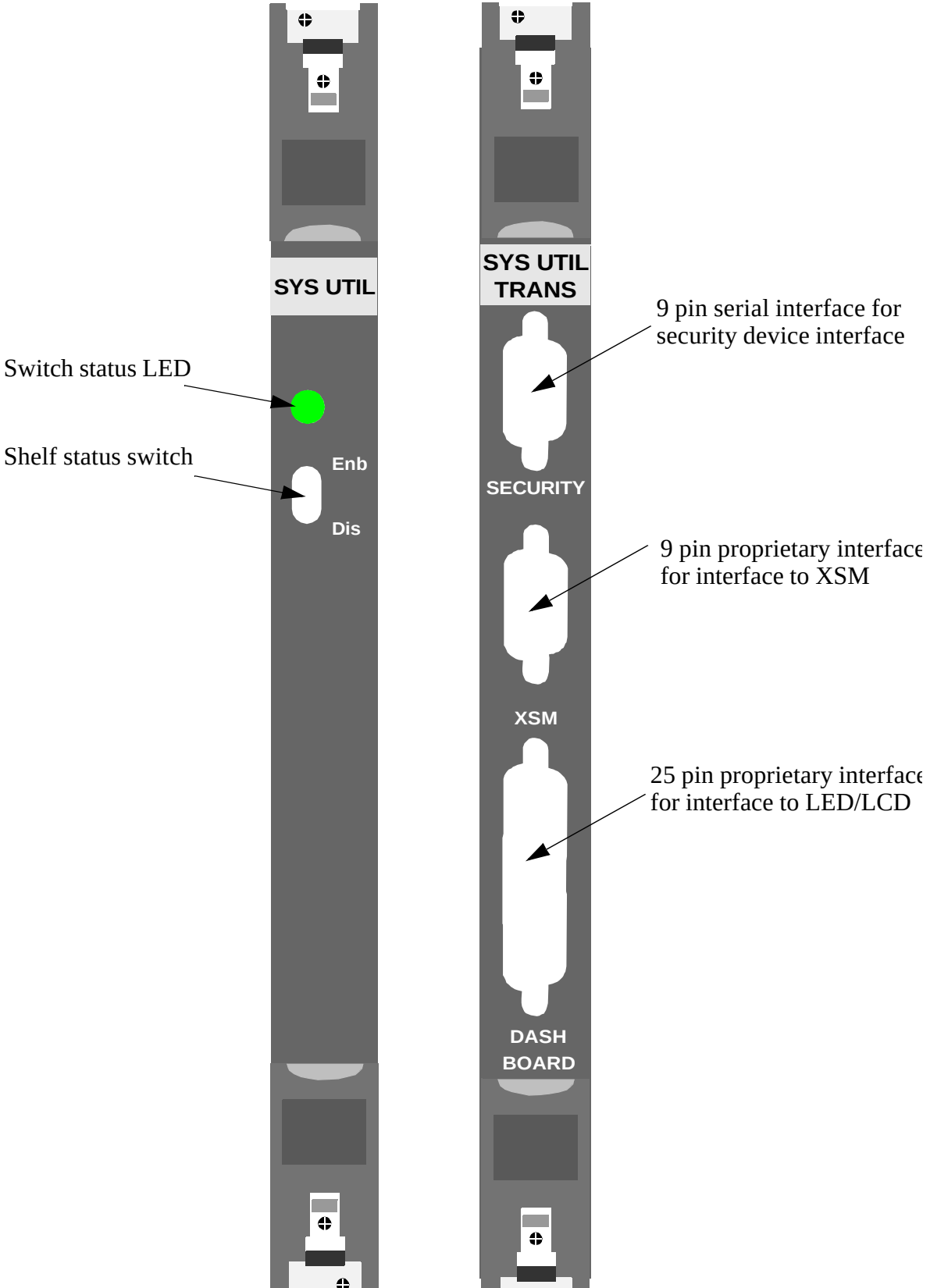
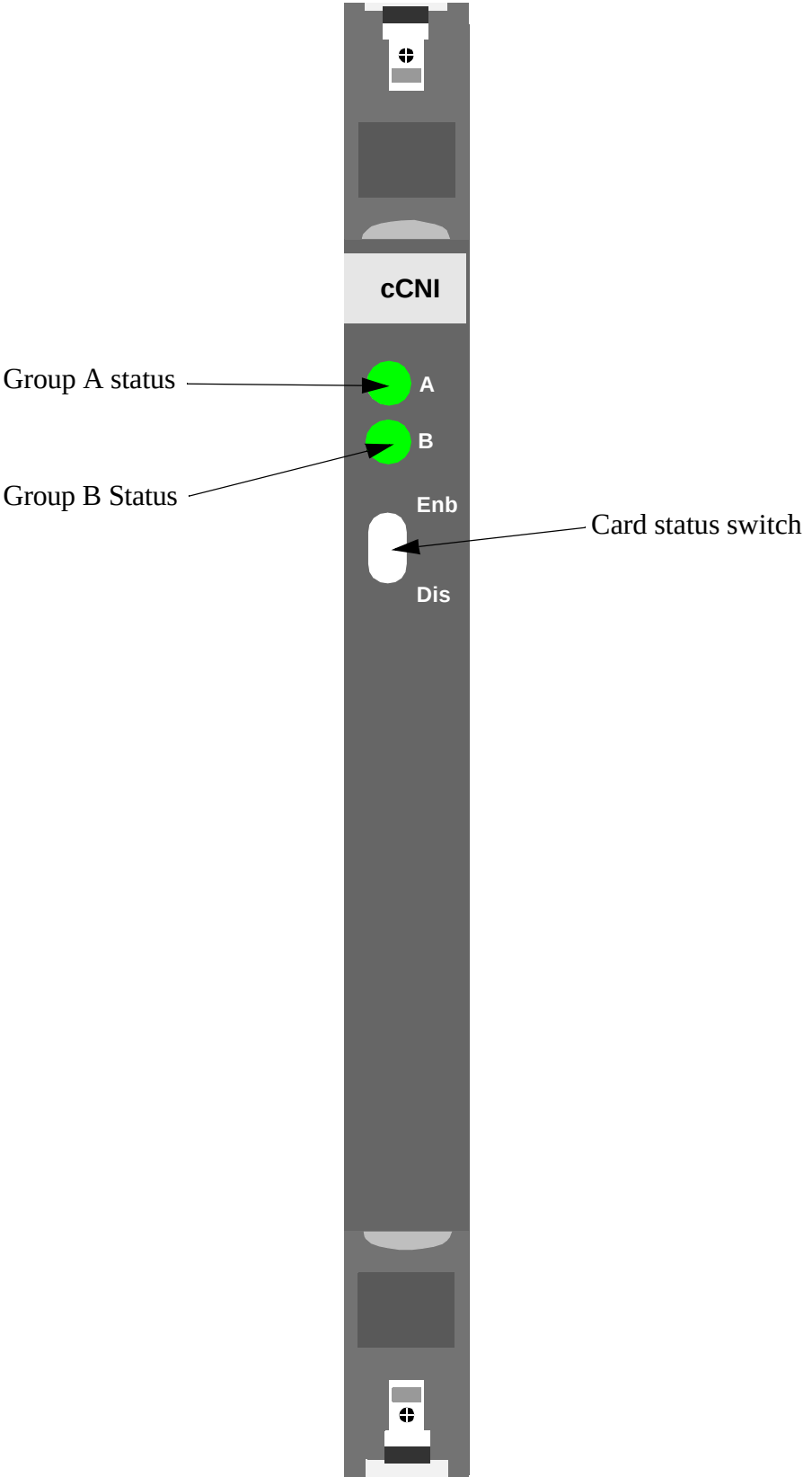


Figure 6 Typical cPCI chassis Layout




Serial communication port 1, connected to J21 on rear I/O panel
Serial communication port 2, connected to J25 on rear I/O panel
Ethernet port 1 connected to J28 on rear I/O panel
Ethernet port 2 Reserved for future use
USB port 1 Reserved for future use
Init (Warm start) switch
Reset (Cold start) switch
CP PII
COM1
COM2
LAN1
LAN2
USB
INIT
RESET
ALRM
SPKR
HDLA
PWR
Alarm indication LED
Auxiliary Alarm LED
CPU power good LED
Hard Disk Drive activity


SYS UTIL
SYS UTIL TRANS
Switch status LED
Shelf status switch
Enb
Dis
9 pin serial interface for security device interface
SECURITY
9 pin proprietary interface for interface to XSM
XSM
25 pin proprietary interface for interface to LED/LCD
DASH BOARD


cCNI
Group A status
A
B
Group B Status
Enb
Card status switch
Dis

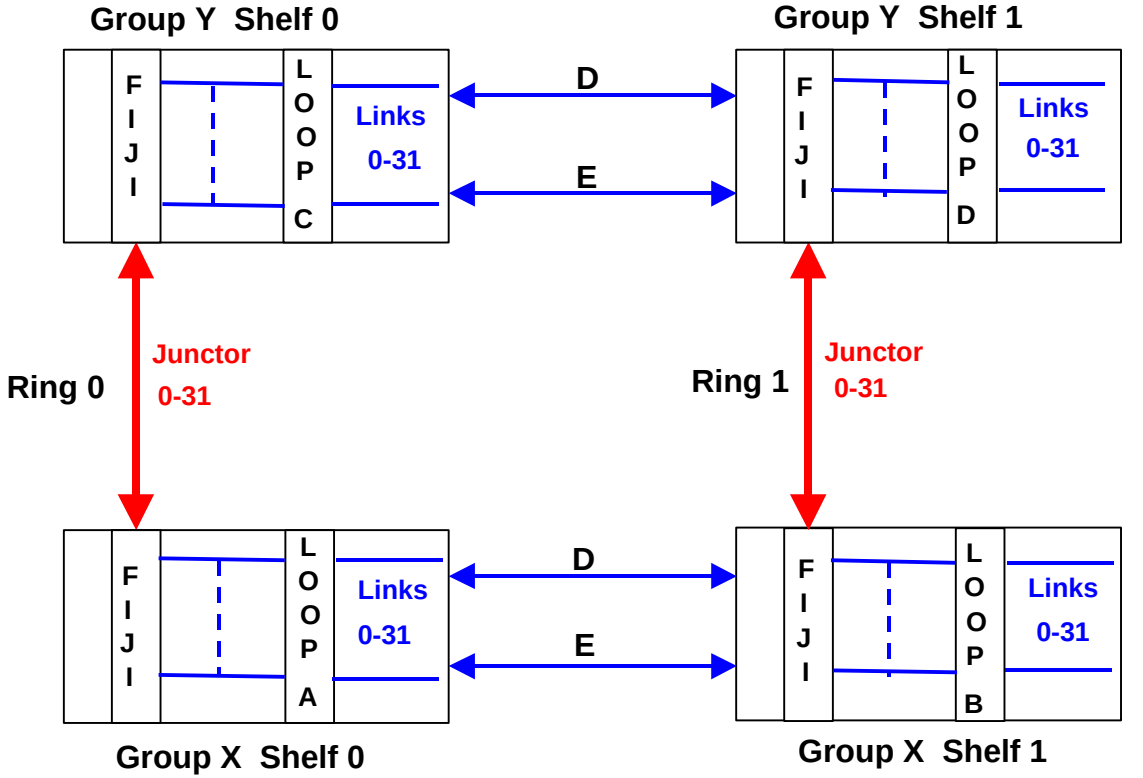

Group Y Shelf 0
Group Y Shelf 1
FIJI
LOOP C
LOOP D
Links 0-31
D
E
Ring 0
Ring 1
Junctor 0-31
LOOP A
LOOP B
Group X Shelf 0
Group X Shelf 1

Diagram 1

Loop to Link Correlation Table								
	Group 0	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7
Link	Loop	Loop	Loop	Loop	Loop	Loop	Loop	Loop
0	0	32	64	96	128	160	192	224
1	1	33	65	97	129	161	193	225
2	2	34	66	98	130	162	194	226
3	3	35	67	99	131	163	195	227
4	4	36	68	100	132	164	196	228
5	5	37	69	101	133	165	197	229
6	6	38	70	102	134	166	198	230
7	7	39	71	103	135	167	199	231
8	8	40	72	104	136	168	200	232
9	9	41	73	105	137	169	201	233
10	10	42	74	106	138	170	202	234
11	11	43	75	107	139	171	203	235
12	12	44	76	108	140	172	204	236
13	13	45	77	109	141	173	205	237
14	14	46	78	110	142	174	206	238
15	15	47	79	111	143	175	207	239
16	16	48	80	112	144	176	208	240
17	17	49	81	113	145	177	209	241
18	18	50	82	114	146	178	210	242
19	19	51	83	115	147	179	211	243
20	20	52	84	116	148	180	212	244
21	21	53	85	117	149	181	213	245
22	22	54	85	118	150	182	214	246
23	23	55	87	119	151	183	215	247
24	24	56	88	120	152	184	216	248
25	25	57	89	121	153	185	217	249
26	26	58	90	122	154	186	218	250
27	27	59	91	123	155	187	219	251
28	28	60	92	124	156	188	220	252
29	29	61	93	125	157	189	221	253
30	30	62	94	126	158	190	222	254
31	31	63	95	127	159	191	223	255

Chart 1

AT Command Reference Summary

%Cn -- Enable/Disable Data Compression
%En -- Auto-Retrain control
&Cn -- DCD Control
&Dn -- DTR Option
&Fn -- Recall Factory Profile
&Gn -- Select Guard Tone
&Jn -- Telephone Jack Control
&Kn -- Data Flow Control
&Qn -- Communication (Sync/Async Mode)
&Rn -- RTS/CTS (Hardware) Flow Control
&Tn -- Test Mode
&V -- View Configuration
&Wn -- Store User Profile
&Yn -- Default User Profile
&Zn=x -- Store Phone Number
)Mn -- Cellular Power Level Adjustment
***Hn** -- Link Negotiation Speed
+++ -- Escape Sequence
+MS -- Select Modulation
:En -- Compromise Equalizer Setting
? -- Read Currently Selected S Register
@**Mn** -- Initial Cellular Power Level Setting
\An -- Select Maximum MNP Block Size
\Bn -- Transmit Break
\Gn -- Modem to Modem (Software) Flow Control
\Ln -- Select MNP Block/Stream Mode
\Nn -- Protocol Negotiation Selection
A -- Answer
A/ -- Re-execute Command
Bn -- CCITT or Bell Selection
Cn -- Carrier Control
Dn -- Dial
En -- Command Echo
Fn -- Select Modulation
Hn -- Disconnect (Hang-up)
In -- Identification
Ln -- Speaker Volume
Mn -- Speaker Control
Nn -- Automode Enable (Automatic Line Speed Detection)
On -- Return to On-Line Data Mode
P -- Set Pulse Dial Default
Qn -- Result Code On/Off

Sn -- Select a Specific S Registe
Sn=x -- Write an S Register Value
Sn? -- Read an S Register
T -- Set Tone Dial Default
Vn -- Result Code Format
Wn -- Negotiation Progress (Connect Message) Control
Xn -- Extended Result Code
Yn -- Long Space Disconnect
Zn -- Modem Reset

(Escape Sequence)
The escape sequence causes the modem to go to the off-line command state from the on-line data state.
After this escape sequence, the modem can accept user's AT commands. The escape sequence consists
of three escape code that is defined by S-Register 2 (default value: decimal 43(+)).
Do not enter any character before and/or after the "+++" for a guard time specified by
S-Register 12 (default: 1 second). The duration between escape codes must also be within the guard time.
After the modem recognizes a valid escape sequence, an "OK" result code is returned. If an escape
sequence is valid, the escape code is transmitted to a remote modem. The ATO command is used to go
back to on-line data state.
For example:
ATD 0123456 [enter]
CONNECT 19200
[data] [----]
(1 sec pause)
+++ (Without 1 sec pause between escape codes)
(1 sec pause)
OK (On-line command state)
ATH0 [CR] (Disconnect the line)
OK

A/ (Re-execute Command)
This command re-executes the previous command processed by the modem. This command
will be useful to re-dial without entering a dial string when a line is busy or unanswered.
This command is not preceded by "AT", or followed by [Enter].

In (Identification)
This command instructs the modem to return its product identification information.

- I0 -- Returns the product code.
- I1 -- Reports the 3 digits pre-computed ROM checksum code.
- I2 -- Calculates a checksum of the modem firmware ROM and indicates OK
  or ERROR for the checksum validity.
- I3 --Returns the modem ROM version.
- I4 -- TBD
- I5 -- TBD
- I6 -- Returns the modem data pump model.

Zn (Modem Reset)
This command resets the modem and recalls the stored configuration as defined at power on time.

- Z0 -- Reset and recall stored user profile 0.
- Z1 -- Reset and recall stored user profile 1.

&Fn (Recall Factory Profile)
This command reloads the factory default profile.

- &F0 -- Recall Factory Profile 0. Factory Profile 0 contains the default values from
  the modem chipset supplier.
- &F1 -- Recall Factory Profile 1. Factory Profile 1 contains the default values defined
  by the product manufacturer.

&Jn (Telephone Jack Control)
This command is only included for compatibility and performs no function. The value
is written into S-Register 21.

&V (View Configuration)
This command displays the current active configuration, stored user profiles, and the
first four stored telephone numbers. Applications may change these profile.
If the modem's non-volatile memory is detected as defective by the modem's NVRAM test,
the modem will display *NVRAM FAILED OR NOT INSTALLED*

&Wn (Store User Profile)
This command stores the current, active configuration including S-Registers into non-volatile memory as stored user's profile 0 or 1. Storable parameters can be

viewed by &V command. Stored parameters can be recalled into active configuration
by Zn command or at power on.

- &W0 -- Store active configuration as user's profile 0.
- &W1 -- Store active configuration as user's profile 1.

&Yn (Default User Profile)
This command selects which of two user's profiles will be loaded into the active configuration following Power on Reset.

- &Y0 -- Selects power up configuration as user's profile 0.
- &Y1 -- Selects power up configuration as user's profile 1.

&Zn=x (Store Phone Number)
This command stores up to 4 telephone number dial strings into one of 4 non-volatile
memory locations specified by n. This stored phone number can be used for later abridged dialing with the DS=n command.
n: Entry number (range 0-3)
x: dial string less than 45 digits (including dial modifiers)

Command modifiers define additional parameters to the modem that instruct the modem to perform certain functions automatically when dialing a phone number. They are only valid when they are contained in a dial string (that follows the D command).
The commands that are used to accomplish this task are called dial modifiers, and are
placed in the dial string prior to issuing the command.
Syntax: ATD{dial modifier} 1234567 [Enter]
Basic dial modifiers are:

- **P** -- Pulse dialing. Also known as rotary dialing, this dial modifier follows the D command
  and precedes the telephone number to tell the modem to dial the number using pulse service.
- **T** -- Tone dialing. This modifier selects the tone method of dialing using DTMF tones.
  Note: *Tone and pulse dialing can also be combined in a dial command line when*
  both dialing methods are required.
- **;** -- Resume command mode after dialing. If you need to dial a number that is too long
  to be contained in the command buffer (45 characters for the D command),

use the (;) modifier to separate the dial string into multiple dial commands.

All but the last command must be end with the ; modifier.

- **,** -- Pause While Dialing. The comma (,) dial modifier causes the modem to pause

  while dialing. The modem will pause the number of seconds specified in

  S-Register S8 and then continue dialing. If a pause time longer than the value

  in S-Register S8, it can be increased by either inserting more than one (,) in the

  dial command line or changing the value of S-Register S8. In the following example,

  the command accesses the outside (public) telephone line with the 9 dial modifier.

  Because the comma (,) dial modifier is present, the modem delays before dialing the

  telephone number 5551212. ***Ex:*** *ATD 9, 5551212 [Enter]*
- **!** -- Using the Hook Flash. The exclamation mark (!) dial modifier causes the modem

  to go on-hook (hang up) for one-half second and is equivalent to holding down the

  switch-hook on your telephone for one-half second. This feature is useful when transferring calls.
- **W** -- Wait for a Subsequent Dial Tone. The W dial modifier causes a modem to wait for an additional

  dial tone before dialing the numbers that follow the W. The length of time the modem waits depends

  on the value in S-Register S7. The modem can be instructed to dial through

  PBXs (Private Branch Exchanges) or long-distance calling services that require delays during

  dialing. This can be done with the W command to wait for a secondary dial tone or with a

  comma (,) command to pause for a fixed time and then dial.

  Ex: *ATDT 9 W 1 2155551212 [Enter]*

Serial Port Control

The modems.com 28.8(V.34) / 14.4 Kbps Data/FAX Modems can determine the speed, parity, and
stop bits from the serial port connection. The modem automatically detects the serial data speed
between 300 and 115,200 bps with the following formats:

Data Length	Parity	Stop Bits	Total Length
7	None	2	10
7	Odd	1	10
7	Even	1	10
7	Mark	1	10
7	Space	1	10
8	None	1	10
8	Odd	1	11
8	Even	1	11

The modem also has the capability of automatically adjusting the baud rate to the internal
serial port to physical carrier speed. The user application must adjust the baud rate of the
internal serial port to it by detecting carrier speed after CONNECT xxxx message. This command setting is valid for reliable (error corrected) link and normal mode connections.
The baud rate adjust feature is always active for direct mode connection.

&Cn (DCD Control)
This command controls the behavior of the DCD (Data Carrier Detect) signal of the internal serial port.

- &C0 -- DCD is always on.
- &C1 -- DCD will track the state of the data carrier from the remote modem.

&Dn (DTR Option)
This command controls the modem response to the serial port's Data Terminal Ready (DTR) signal.
This command interprets the ON and OFF transitions of the DTR signal from the DTE in accordance
with the parameters as defined by n.

&Kn (Data Flow Control)
This command determines how the modem controls data flow between the system and the modem.
For example, if the speed between the system unit and the modem is 19200 bps, and the speed between
the local and remote modem is 2400 BPS, the transmit buffer of the modem is likely to be overflow when
the system is sending large amounts of data. To prevent an overflow and subsequent loss of data,
the modem either sends a XOFF character or drops the CTS signal to signal that the system should
stop data sending. When enough space is available in the modems transmit buffer, the modem either

sends a XON character or raises CTS to signal that application could resume data sending.
For binary data transfer CTS/RTS flow control should be selected since the modem cannot distinguish
the user's data from XON/XOFF characters. Flow control is not used for direct mode connection.

- &K0 -- Disables flow control.
- &K1 -- Error
- &K2 -- Error
- &K3 -- Enables RTS/CTS flow control. Flow control is active in both sending and receiving direction.
- &K4 -- Enables XON/XOFF flow control. Flow control is active in both sending and receiving direction.
- &K5 -- Enables transparent XON/XOFF flow control. XON/XOFF character which is sent from the
  system unit will be processed for flow control and also sent to the remote modem. Flow
  control is active in both sending and receiving direction.
- &K6 -- Enables both RTS/CTS and XON/XOFF flow control.

&Mn (Communication (Asynchronous/Synchronous) Mode)
Determines the DTR operating mode. The modem treats the &M command as a subset of the &Q command.
This command is used to choose between asynchronous, synchronous, or direct dial modes while the modem
is in the command state. Only Asynchronous mode is supported., and between synchronous and asynchronous
data flow when a connection is established.

- &M0 -- Selects direct asynchronous mode.

&Rn (RTS/CTS (Hardware) Flow Control)
This command determines how the modem controls CTS (Clear to Send). CTS operation is modified if
hardware flow control is selected.

- &R0 -- In synchronous mode, CTS tracks the state of RTS. In asynchronous mode,
  CTS acts according to V.25 handshake.
- &R1 -- In synchronous mode, CTS is always ON (RTS transitions are ignored).
  In asynchronous mode, CTS will only drop if required by flow control.

&Sn (DSR Override)
Data Set Ready Control

- &S0 -- Causes DSR signal to be active at all times.
- &S1-- Causes DSR signal to be active according to the V.25 protocol.

&Xn (Select Synchronous Clock Source)
Selects the source of the transmission clock for the synchronous mode of operation.
The parameter value, if valid, is written to S27 (bits 4 and 5). In asynchronous mode,
the transmission and receipt clocks are turned off.

- &X0 -- Selects internal timing.
- &X1 -- Selects external timing.
- &X2 -- Selects slave receiving timing. The transmission clock signal is derived from the incoming carrier.

\Gn (Modem to Modem (Software) Flow Control)
This command enables and/or disables software flow control using XON/XOFF, between your
modem and the remote modem. During a reliable (error corrected)reliable connection this setting is ignored.

- \G0 -- Disables modem port XON/XOFF flow control
- \G1 -- Enables modem port XON/XOFF flow control

\Wn (Split-Speed Operation)
This command determines the split-speed DCE/DTE interface for applications such as ViewData terminals,
which require a transmit speed of 75 bps and a receive speed of 1200 bps at the DTE interface.

- \W0 -- Disables split-speed mode.
- \W1-- Enables split-speed mode.

%Fn (Split-Speed Direction)
This command determines which direction, transmit or receive, has the 75 bps channel and which
has the 1200 bps channel. This command is only valid if the "Split-Speed Operation" command has been executed.

- %F1 -- Selects 75 tx / 1200 rx
- %F2 -- Selects 1200 tx / 75 rx
- %F3 -- Selects V.23 half duplex operation

Xircom® 56K Modem Adapter AT Commands for Xircom 56Kbps Modems

(Lucent Chipset Modems)
Title: AT Commands for Xircom 56Kbps Modems (Lucent Chipset Modems)

Resolution: With the exception of the Special Commands described at the beginning of the Command Reference,
all commands must be preceded by the AT attention code (or command prefix) and terminated by pressing the Enter key.
The modem responds with the result code OK, which means it understands and can execute the command,
or with ERROR, which means that the modem does not understand the command or that the command is invalid.
The modem must be in command mode when any command other than the online escape sequence is entered
Commands entered when the modem is in online mode are treated as data and transmitted as such to the modem
at the other end of the line. Some commands are used in coordination with S-Registers. For modem script files
to be used with popular communications packages, see the directory \SCRIPTS and the file SCRIPTS.TXT on the
Xircom disk or in a downloaded Xircom software package.

Special Commands **+++ - Online Escape Sequence** The escape sequence is used to switch to command
mode from online mode during a session with a remote modem. Type three plus signs (+++). The escape sequence
is not preceded by the AT command prefix, nor does it require the Enter key. The setting of S-Register S2 determines
the ASCII character used. S2=43 is the default (the '+' sign). 0-127 are valid. To disable the command, set S2 to a value
greater than 127. Use the ATO (AT and letter 'O' not the number zero) command to return to online mode.
Insert a pause before and after the escape sequence to prevent misinterpretation of the escape sequence as data.
Use S-Register S12 to set the length of the pause.

A/ - Repeat Last Command The A/ command causes the modem to repeat the last command string. The command
executes as soon as / is typed. It does not require the AT command line prefix, nor does it need to be followed by Enter.

AT Command Reference **A - Answer** Typing ATA causes the modem to go off-hook and respond to an incoming call
by generating a carrier signal and starting the handshaking process. This must be the only command or the final command
in the command line. If the handshaking process is successful and a connection is established, the normal CONNECT
message is displayed. If the carrier signal is not detected within the time specified in S-Register S7, a NO CARRIER result code
is displayed.

B*n* - Select Communications Standard The ATBn command selects the communication standard (ITU or Bell) to be
used by the modem, as follows:
B0 - Use ITU V.22 at 1200bps. B0 selects ITU V.22 at 1200bps and ITU V.21 at 300bps.
B1 - Use Bell 212A at 1200bps. B1 selects Bell 212A at 1200bps and Bell 103J at 300bps.
B2 - Unselect V.23 reverse channel.
B3 - Select V.23 reverse channel.
B15 - Selects V.21 when the modem is at 300bps (same as B0).
B16 - Selects Bell103J when the modem is at 300bps (same as B1). The ATB1 and ATB16 parameter settings
are not available in some countries. Default values are country-specific.

Break (Escape) command See 'Special Commands' at the beginning of this Command Reference section.

C*n* - Carrier Control The ATCn command, where n is 1, guarantees backward compatibility with communications software that issues the C1 command. C0 is not supported; it may set some modems to 'receive only mode'.

C0 - Transmit carrier always off (not supported). C1 - Normal transmit carrier switching.

Dn - Dial A Telephone Number The ATDn command is used to dial a telephone number. The n represents a dial string consisting of dial digits/characters and dial modifiers (see below) and must not exceed 40 characters.

Spaces, hyphens, and parentheses can be used for clarity, but they are ignored by the modem.

The Dial command can be used for either pulse (rotary) or tone dialing. The dial digits/characters are 0 - 9 A B C D # *.

The characters A B C D and the symbols # and * represent specific tone pairs and can be used only when tone dialing.

These characters and symbols are ignored when pulse dialing is used. Some countries restrict or prohibit the use of some of these characters. *Dial Modifiers* Dial modifiers are recognized by the modem only when they are part of a dial string following the ATD command. Possible dial modifiers are: L - (Redial Last Number) Redials last number if used as first character following ATD, otherwise it is ignored. P - (Pulse Dialing Method) The P modifier is used with the Dial command to instruct the modem to pulse dial the telephone number that follows. S=n - (Dial a Stored Telephone Number) The S modifier instructs the modem to dial a number that had been previously stored by the use of the AT&Zn=x command.

The command to dial a stored telephone number is ATDS=n, where n represents telephone number storage location 0 or 1.

For example, ATD P S=1 pulse dials the telephone number written to telephone number storage location 1.

, - (Delay Processing the Next Character) When the comma (,) modifier is included as part of the dial string following the ATD command, the modem pauses before processing the next character in the dial string. The duration of the pause is dictated by the contents of S-Register S8. The ' ,' modifier is frequently inserted after the digit (usually 9) used to obtain an outside line from a PBX to allow sufficient time for the dial tone to occur before the modem dials the telephone number.

The W modifier can be used in place of the comma. Some countries place restrictions on the amount of time a modem may delay during dialing. T - (Tone Dialing Method) The T modifier is used with the Dial command to instruct the modem to tone dial the telephone number that follows. See also the ATT command. W - (Wait for Second Dial Tone) The W modifier instructs the modem to wait for a dial tone before processing the remaining characters in the dial string. ! - (Hook Flash)

The ! modifier serves as a switch hook (or hook flash) signal. This causes the modem to hang up (go on-hook) about 0.5 seconds then return to off-hook (the actual duration of the hook flash varies in different countries).

@ - (Wait for Quiet Answer) The @ modifier in a dial string instructs the modem to wait for five seconds of silence after dialing
the number. If silence is not detected, the modem sends a NO ANSWER result code to the user.
, ; - (Return to Command Mode after Dialing) The semicolon (;) dial modifier can be used only at the end of a command line,
immediately preceding the Enter, and instructs the modem to return to the command mode immediately after dialing and
without breaking the connection with the distant modem. ^ - (Disable Data Calling Tone Transmission) The ^ modifier in a
dial string disables data calling tone for the current call (calling tone is automatically enabled in many countries).
This modifier is not available in all countries. $ - (Credit Card Tone Detect) The $ modifier in a dial string instructs the
modem to wait for a credit card 'bong' tone before processing the remaining characters in the dial string.

E*n* - Echo Command The ATEn command, where n represents 0 or 1, determines if the commands you issue through the
keyboard to the modem in command mode are displayed (echoed) on your computer's monitor screen. E0 - Disable echo
to the computer E1 - Enable echo to the computer (default) If the commands you type are not displayed on your monitor screen,
your software is set to expect character echo from the remote system. You can remedy this by typing in the command ATE1.
If the commands you type are displayed on your monitor with the characters duplicated, LLIIKKEETTHHIISS, type in
the ATE0 command.

F*n* - Online Data Character Echo command Ths ATFn command determines whether the modem will echo data from the DTE.
This modem does not support the F0 version of the command. To ensure backward compatibility, the modem will accept F1.
F0 - Online data character echo enabled F1 - Online data character echo disabled.

H*n* - Switch Hook Options The ATHn command hangs up the modem or prepares it for dialing. ATH0 - Causes the modem to go on-hook (default). ATH1 - Causes the modem to go off-hook (this command is restricted in some countries).

I*n* - Request ID Information The ATI command has various options which are used to instruct the modem to provide
specific information about itself. I0 - Displays modem controller firmware revision (same as I3) I1 - Calculates ROM checksum
and displays it on the DTE (for example, 12AB) I2 - Performs a ROM check and calculates and verifies the checksum.
displaying OK or ERROR. I3 - Displays modem firmware revision information I12 - Returns country code
(for example, North America)

L*n* - Monitor Speaker Volume The ATLn command, where n represents 0, 1, 2, or 3, is listed here for backward
compatibility reference only. The volume of the monitor speaker is controlled by the laptop computer, not by the modem.

M*n* - Speaker On/Off Selection The ATMn command, where n represents 0, 1, 2, or 3, enables or disables the transmission
of sound signals from the modem to the computer speaker. (Sound production also requires that the computer speaker be enabled.)
M0 - Speaker always off.
M1 - Speaker on until data carrier is detected
M2 - Speaker always on when modem is off-hook

M3 - Speaker off as digits are dialed, then on after dialing until data carrier is detected

N*n* - Negotiation of Handshaking Options The ATNn command, where n represents 0 or 1, determines whether or not the sending modem performs a negotiated handshake when the speed of the answering modem is different from that of the sending modem. N0 - When originating or answering, handshake only at the communication standard specified by the contents of S-Register S37 and the ATBn command option selected. N1 - When originating or answering, handshake only at the communication standard specified by the contents of S-Register S37 and the ATBn command option selected.

During handshaking, fall back to a lower speed, if required. (default)

O*n* - Online Command If the modem has been switched to command mode, typing in the ATO0 command will return it to the online mode with the existing connection.

O0 - Instructs modem to leave online command mode and return to data mode (see +++ Escape Sequence under "Special Commands")

O1 - This setting issues a retrain command before returning to online data mode.

O2 - This setting issues a rate negotiation command before returning to online data mode.

P - Select Pulse Dialing The ATP command instructs the modem to use pulse (rotary) dialing. This mode will remain in force for all dialing procedures unless an ATT command is issued or the dial string contains a T dial modifier.

Q*n* - Result Code Display Options The setting of the ATQn command, where n represents 0 or 1, determines whether or not result codes (such as OK, CONNECT, RING, NO CARRIER, and ERROR) are displayed on your PC's screen.

Q0 - Display of result codes enabled.

Q1 - Display of result codes disabled.

Repeat command See "Special Commands" at the beginning of this topic.

T - Select Tone Dialing The ATT command instructs the modem to use tone dialing. This mode will remain in force for all dialing procedures unless an ATP command is issued or the dial string contains a P dial modifier. Tone dialing is the factory-default setting.

V*n* - Result Code Format Options The ATVn command, where n represents 0 or 1, determines if result codes are displayed as numeric (short form) codes or words (long form). Numeric result codes contain only one or two digits and this form could be used, for example, when the modem is controlled by a software terminal emulation program that uses script files. See the list at the beginning of this topic showing result codes in both long and short formats. Type the command ATV or ATV0 to select numeric result codes. The factory default is to display the result codes as words (ATV1). You should issue an ATV1 command either to reset the factory default after a change has been made or to select the long-form (word) result codes. Negotiation progress messages (extended result codes) are those with a numerical value of 40 or more. Four other AT commands, two dial modifiers, and an S-Register are also directly involved in the generation and display of result codes. These are the

ATQn, ATVn, ATWn, and ATXn commands, the ATDW and ATD@ dial modifiers, and S-Register S95.

W*n* - Negotiation Progress Message Selection The ATWn command, where n represents 0, 1, or 2, works in conjunction with S-Register S95 to determine how that subset of the result codes - called negotiation progress messages or extended result codes - will be used to report the type of connection, protocol, and other communication techniques that resulted from handshaking and subsequent negotiation. The options available to represent n in the ATWn command are:

W0 - CONNECT result code reports DTE speed. If S-Register S95=0, disable the display of all extended result codes.

W1 - CONNECT result code reports DTE speed. If S-Register S95=0, enable the display of CARRIER and PROTOCOL extended result codes only. W2 - CONNECT result code reports DCE (modem-to-modem) speed. If S-Register S95=0, disable the display of all extended result codes.

X*n* - Result Code Set/Call Progress Option The ATXn command, where n represents 0-4, controls how the modem responds to dial tone and busy signals and how it displays CONNECT result codes. The options available to specify with the ATXn command are: X0 - Result codes 0-4 enabled. Busy detect and dial tone detect disabled. X1 - Result codes 0-5, and 10 enabled. Busy detect and dial tone detect disabled. X2 - Result codes 0-6, and 10 enabled. Busy detect disabled and dial tone detect enabled. X3 - Result codes 0-5, 7, and 10 enabled. Busy detect enabled and dial tone detect disabled.

X4 - Result codes 0-7, and 10 enabled. Busy detect and dial tone detect enabled. Some countries do not allow busy detect or dial tone detect to be disabled.

Y*n* - Long Space Disconnect Option The ATYn command, where n represents 0 or 1, determines whether or not the modem will disconnect a call when it receives a long space (1.6 seconds Break) signal during a V.22bis connection.

Y0 - Disables the long space disconnect facility (supported for backward compatibility reference only).

Y1 - Enables the long space disconnect facility (not supported).

***Z*n* - Recall Stored Profile** The ATZn command, where n represents 0, disconnects any call that is currently in progress and reloads the user configuration profile stored in nonvolatile memory as the active configuration profile. Z0 - Disconnect and reload the profile contained in storage location 0 as the active configuration profile.

&B*n* - V.32 Automatic Retrain Options The Xircom modem always retrains. The automatic retrain feature cannot be disabled.

&B0 - Disables the V.32 automatic retrain capability (not supported). &B1 - Enables the V.32 automatic retrain capability (supported for backward compatibility only).

&C*n* - Data Carrier Detect (DCD) The AT&Cn command, where n represents 0 or 1, selects the method by which the modem handles the carrier detect signal. &C0 - The carrier detect signal is forced on regardless of the condition of the distant modem's carrier. &C1 - The state of the carrier from the remote modem is monitored. The local modem's DCD signal is on when the remote modem's carrier signal is detected, and off when it is not (default).

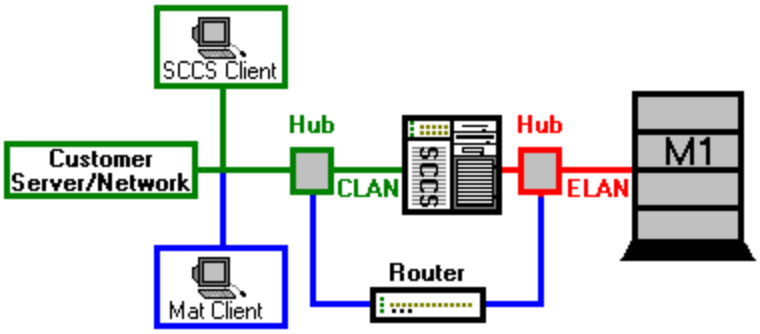
&D*n* - Data Terminal Ready (DTR) Options The AT&Dn command, where n represents 0-3, controls how the
Data Terminal Ready (DTR) signal is used by the modem. &D0 - Ignore the DTR signal from the computer and treat it as
always on. &D1 - Monitor DTR and, when an ON-to-OFF transition of the DTR signal occurs, switch to command mode,
issue an OK result code, and remain connected. &D2 - Monitor DTR and, when an ON-to-OFF transition of the DTR signal occurs,
hang up the line and switch to command mode. &D3 - Monitor DTR and, when an ON-to-OFF transition of the DTR signal occurs,
hang up, reset the modem and switch to the initialization state.
&F*n* - Load Factory Settings The AT&F command loads factory default parameters from ROM into the active
configuration profile, replacing the parameters stored there. This command must be issued by itself. If it is used with
another AT command, its function will be ignored. &F0 - Recall factory settings as active configuration
&F5 - Recall factory settings appropriate for ETC mode as active configuration. This command enables ETC operation.
It is automatically set upon detection of a cellular phone. The following options are set with &F5:
Local Factory Settings Function - MTC Implementation LAPM-only error correction - \N4 Transmit level fixed per
cellular phone - S92 Wait for carrier = 90 sec - S7=90 CD loss delay = 10 sec - S10=100 Auto FF/FB enabled - N/A
Start up at 9600bps - S40=2
&G*n* - V.22bis Guard Tone Selection This option is for international use only. It is not used in North America.
The AT&Gn determines which guard tone, if any, to transmit while in answer mode (transmitting in the high band).
The value of n can be 0, 1, or 2. This parameter is set automatically for most countries that require it.
&G0 - No guard tone set &G1 - 550-Hz guard tone set &G2 - 1800-Hz guard tone set
&J*n* - Auxiliary Relay Option &J0 - Auxiliary relay is never closed &J1 - Not supported (returns ERROR)
&K*n* - Local Flow Control Options The AT&Kn command, where n represents 0-4, determines how the flow control
between the computer and the local modem is handled. &K0 - Disable local flow control. &K3 - Enable RTS/CTS flow
control (default). &K4 - Enable XON/XOFF flow control.
&M*n* - Communications Mode The AT&Mn command, where n represents 0-4, determines how the flow control between
the computer and the local modem is handled. &M0 Asynchronous mode (default; supplied for backward compatibility only).
&P*n* - Pulse Dial Make-to-Break Ratio Selection The AT&Pn command, where n represents 0, 1, or 2, controls the ratio
of the off-hook (make) to on-hook (break) interval used by the modem when it pulse dials. &P0 - Selects 39:61 make/break
ratio at 10 pps (default - U.S.) &P1 - Selects 33:67 make/break ratio at 10 pps (default - Japan)
&P2 - Selects 33:67 make/break ratio at 20 pps (option - Japan)
&Q*n* - Asynchronous Communications Mode &Q0 - Asynchronous mode, buffered (same as \N0)
&Q5 - Error control mode, buffered (default; same as \N3) &Q6 - Asynchronous mode, buffered (same as \N0)

&S*n* - Data Set Ready (DSR) Options The AT&Sn command controls the functions of the modem's DSR circuits
&S0 - The DSR signal remains on all the time the modem is powered on (default) &S1 - The DSR signal is on during
handshaking and is off when carrier is lost.
&T*n* - Self-Test Commands The AT&Tn command allows the user to perform diagnostic tests on the modem.
&T0 - Abort. Stops any test in progress. &T1 - Local analog loop. this test verifies modem operation, as well as the
connection between the modem and computer. The modem must be off-line when this test is run.
&T3 - Local digital loopback test.
&T6 - Remote digital loopback test. This test can verify the integrity of the local modem, the communications link, and the
remote modem. The modems must be online with error control disabled when this test is run.
&V - View Configuration Profile The AT&V command displays the contents of the active configuration profile.
&W*n* - Write Active Profile to Memory The AT&Wn command, where n is 0, allows you to save a copy of the current active
configuration profile to nonvolatile memory. This profile can be restored at any time by using the ATZ command or a
power-up reset of the modem.
&Y*n* - Select Stored Profile for Hard Reset This command is included for compatibility with applications that use the
&Y0 command. It does not affect the behavior of the modem. &Y0 - Select stored profile 0 on power up &Y1 - ERROR
&Z*n*=x - Store Telephone Number The AT&Zn=x command is used to store a telephone number for later dialing using
the ATDS=n (dial stored number) command. In this command, n is 0 or 1 representing 2 storage locations and x is the stored
number. The dial string may contain up to 40 characters.
\Gn - Modem Port Flow Control The AT\Gn command determines whether XON/XOFF flow control will be used.
\G0 - Returns OK for compatibility (default) \G1 - Not supported; returns ERROR
\J*n* - Adjust BPS Rate Control \J0 - Turn off feature (default) \J1 - Turn on feature
\K*n* - Break Control The AT\Kn command determines how the modem processes a Break signal received from the
local DTE during a connection (online). \K5 - Modem sends Break to remote modem in sequence with transmitted data,
non-destructive/non-expedited (default)
\N*n* - Error Mode Control Selection The AT\Nn command sets the type of error correction supported by the modem
when sending or receiving data. \N0 - Buffered mode. No error control (same as &Q6). \N1 - Buffered mode (same as \N0)
\N2 - LAPM, MNP or disconnect mode. This is also known as reliable mode. \N3 - LAPM, MNP, or buffered (default).
The modem attempts to connect in LAPM error control mode. If this fails, the modem attempts to connect in MNP mode.
If this fails, the modem connects in buffered mode and continues operation. This is also known as V.42 auto-reliable mode
(same as &Q5) \N4 - LAPM or disconnect. The modem attempts to connect in LAPM error control mode. If this fails,
the call will be disconnected. \N5 - MNP or disconnect mode. The modem attempts to connect using MNP 2-4 error control
procedures. If this fails, the modem disconnects. This is also known as MNP reliable mode.

\Q*n* - Local Flow Control Selection The AT\Qn command sets the type of flow control used on the serial port to adjust
for differences in modem port speed. \Q0 - Disables flow control (same as &K0)
\Q1 - Sets flow control to XON/XOFF (same as &K4) \Q3 - RTS/CTS to DTE (default; same as &K3)
\T*n* - Inactivity Timer Limit The AT\Tn command specifies length of time (in minutes) that the modem waits before
disconnecting when no data is sent or received. The time period can be set at n = 0 - 255. A setting of zero disables the timer.
As an alternative, the timer may be specified in S-Register S30. This function is only applicable in buffer mode.
\Xn - XON/XOFF Pass Through \X0 - Modem process XON/XOFF flow control characters locally (default)\X1 - Not supported;
returns ERROR
%B - View Numbers in Blacklist If blacklisting is in effect, the AT%B command displays the numbers for which the last call
attempted in the past two hours failed. In countries that do not require blacklisting, this command returns ERROR.
%C*n* - Data Compression Control The AT%Cn command determines the operation of V.42bis and MNP class 5 data
compression. Online changes do not take effect until a disconnect occurs. %C0 - V.42bis/MNP Class 5 compression
disabled (no data compression) %C1 - MNP Class 5 compression enabled (no V.42bis) %C2 - V.42bis compression
enabled (no MNP Class 5) %C3 - V.42bis/MNP Class 5 data compression enabled (default)
-C*n* - Data Calling Tone Data calling tone is a tone of a certain frequency and cadence specified in V.25 that allows
remotes data/fax/voice discrimination. The frequency is 1300 Hz with a cadence of 0.5 seconds on and 2 seconds off.
-C0 - Disables calling tone (default) -C1 - Enables calling tone Some countries do not permit calling tone to be disabled.
+GCAP Request Complete Capabilities List Syntax: AT+GCAP AT+GCAP=? This command displays one or more
lines of information text, in a standard format, describing the basic capabilities of the modem. This allows a software package
to determine which groups of extended-syntax commands the modem supports. The response may contain one or more of the
following responses: +CGSM - GSM (+C) commands. +DS& - Data Compression (+D) commands
+ES - Error Control (+E) commands +FCLASS - Fax (+F) commands. +MS - Modulation Control (+M) commands
+W - Wireless (+W) commands +GCAP=? may be used to determine whether the modem supports the
+GCAP command: an OK response indicates support, ERROR indicates non-implementation.
+GCI - Country of Installation Syntax: AT+GCI= T.35 code AT+GCI? AT+GCI=? This command configures the modem
for the country of use, selecting operational parameters and ensuring conformity to the requirements of the selected country's
telephone network. The +GCI parameter may only be changed when the modem is in an idle state. *T.35 code* refers to the
8-bit hexadecimal number next to the country in the list below. To determine which countries are currently supported,

use AT+CGI=? The command will respond with the *T.35 codes* for the countries supported. To determine the current country
setting, use AT+GCI? The command will respond with the *T.35 code* for the country selected. To change the current country
selection, use AT+GCI= *T.35 code*
Country - *T.35 code* Australia - 09 Austria - 0A Barbados - 0E Belgium - 0F Canada - 20 Czech Republic - 2E
China - 26 Denmark - 31 Finland - 3C France - 3D Germany - 04 Guam - 48 Hungary - 51 Hong Kong - 50 Iceland - 52
Indonesia - 54 Ireland - 57 Italy - 59 Luxembourg - 69 Japan - 00 Korea - 61 Malaysia - 6C Netherlands - 7B New Zealand -
7E Norway - 82 Poland - 8A Portugal - 8B Republic of Slovakia - 2E South Africa - 9F Singapore - 9C Spain - A0 Sweden -
A5 Switzerland - A6 Taiwan - FE Thailand - A9 United Kingdom - B4 United States - B5
+GMI - Request Manufacturer Identification Syntax: AT+GMI AT+GMI=? This command displays one or more lines
of information text, identifying the manufacturer of the modem. +GMI=? may be used to determine whether the adapter supports
the +GMI command: an OK response indicates support, ERROR indicates non-implementation.
+GMM - Request Model Identification Syntax: AT+GMM AT+GMM=? This command displays one or more lines of
information text, identifying the modem model. +GMM=? may be used to determine whether the modem supports the
+GMM command: an OK response indicates support, ERROR indicates non-implementation.
+GMR - Request Revision Identification Syntax: AT+GMR AT+GMR=? This command displays one or more lines
of information text, identifying the revision level of the firmware of the modem. +GMR=? may be used to determine whether
the adapter supports the +GMR command: an OK response indicates support, ERROR indicates non-implementation.
+MS - Modulation Selection The AT+MS command is not applicable under the V.90 standard for 56K modems.
The AT+MS parameter controls data modulations and bit rates that may be negotiated between a local and remote modem.
It accepts four subparameters. Syntax: AT+MS=*carrier, automode, min_rate, max_rate*AT+MS? AT+MS=?
+MS? - Reports the current settings of subparameters +MS=? - Displays range of acceptable values for each
subparameter *carrier* - Specifies the preferred modulation to be used in originating or answering a connection.
The subparameter *carrier* is an unquoted string of characters. If the *carrier* parameter is specified, the other subparameters
will revert to factory defaults. If *carrier* is omitted, any unspecified parameters will keep their current values
(for example, AT+MS=,0 or AT+MS=,,,2400). Values accepted for *carrier* are the following:
B103 - Bell 103 (300bps) B212 - Bell 212A (1200bps) V21 - ITU-T V.21 (300bps) V22 - ITU-T V.22 (1200bps)
V22B - ITU-T V.22bis (2400bps) V23C - ITU-T V.23 with constant carrier (1200/75 or 75/1200bps)
V32 - ITU-T V.32 (4800 or 9600bps) V32B - ITU-T V.32bis (4800 - 19200bps) V34 - ITU-T V.34 (2400 - 33600bps)
K56 - (default) Lucent/Rockwell K56flex (32000 - 56000bps) *automode* - Enables or disables negotiation of an alternative

if the preferred modulation is not available. Values accepted for *automode* are the following: 0 - Disabled. Modem will
disconnect if it is unable to negotiate a connection with the specified . 1 - Enabled (default). If the specified *carrier* is unavailable,
modem will attempt to negotiate an alternative carrier as appropriate. *min_rate* - Specifies the lowest bit rate at which the modem
may establish a connection. (This value is fixed at zero for the Xircom modem.) *max_rate* - Specifies the highest bit rate at
which the modem may establish a connection. For modulations that support only a fixed bit rate (such as V.22bis),
max_rate has a fixed value to which it defaults. If the default rate or a rate other than zero is specified, the modem will
return ERROR. This subparameter accepts the following values: 0, 300, 1200, 2400, 4800, 7200, 9600, 12000, 14400,
16800, 19200, 21600, 24000, 31200, 33600bps. If unspecified (set to 0), *max_rate* is determined by the value of *carrier*.
If the *carrier* setting is K56, the *max_rate* subparameter should be left at the default value (zero).


SCCS Client
Hub
Hub
Customer
Server/Network
CLAN
SCCS
ELAN
M1
Router
Mat Client

OPT11 ON RLS 21 AND BELOW
(HOW TO PRINT THE QUEUES IN DEBUG)

```
>LD 9
BDB000
PSWD ?<----------TTYJ is the debug password
#P 1 2
01 0002 :   0BFC<-------print this address for 25
#P 1 BFC 25
01 0BFC :   1B79 1B7E 1B83 1B88 1B8D 1B92 1B97 1B9C<---each one of these fields is the
01 0C04 :   1BA1 1BA6 1BAB 1BB0 1BB5 1BBA 1BBF 1BC4   address of each queue, so you
01 0C0C :   1BC9 1BCE 1BD3 1BD8 1BDD 1BE2 1BE7 1BEC  can just print the first
01 0C14 :   1BF1 1BF6 1BFB 1C00 1C05 1C0A 1C0F 1C14       address for 100 and see all of
01 0C1C :   1C19 1C1E 26B6                                 the queues
#P 0 1B79 100
00 1B79 :                      0000 0001 1BAE 0001 0000       BLUE=QUEUE NUMBER
00 1B7E :   0001 0001 1B7E 0001 0000 0002 0001 1B83       GREEN=# OF CALLREGISTERS
00 1B86 :   0001 0000 0003 0001 1B88 0001 0000 0004        in HEX
00 1B8E :   0001 1B8D 0001 0000 0005 A4AE A4AE 0001
00 1B96 :   0001 0006 0001 1B97 0001 0000 0007 0001
00 1B9E :   1B9C 0001 0000 0008 0001 1BA1 0001 0000
00 1BA6 :   0009 0001 1BA6 0001 0000 000A 0001 1BAB
00 1BAE :   0001 0000 000B 0001 1BB0 0001 0000 000C<---example:"C" queue is the "idle"
00 1BB6 :   B382 9C20 0001 004C 000D 0001 1BBA 0001    queue, the number of call-
00 1BBE :   0000 000E 0001 1BBF 0001 0000 000F 0001     registers in this queue is "4C"
00 1BC6 :   1BC4 0001 0000 0010 0001 1BC9 0001 0000     this value is in HEX, to convert
00 1BCE :   0011 0001 1BCE 0001 0000 0012 0001 1BD3     to DECIMAL see below.
00 1BD6 :   0001 0000 0013 0001 1BD8 0001 0000 0014
00 1BDE :   0001 1BDD 0001 0000 0015 0001 1BE2 0001
00 1BE6 :   0000 0016 0001 1BE7 0001 0000 0017 0001
00 1BEE :   1BEC 0001 0000 0018 0001 1BF1 0001 0000
00 1BF6 :   0019 0001 1BF6 0001 0000 001A 0001 1BFB
00 1BFE :   0001 0000 001B 0001 1C00 0001 0000 001C
00 1C06 :   0001 1C05 0001 0000 001D 0001 1C0A 0001
00 1C0E :   0000 001E 0001 1C0F 0001 0000 001F 0001
00 1C16 :   1C14 0001 0000 0020 0001 1C19 0001 0000
#OPR DEC 4C<-----------------------------------convert HEX to DECIMAL
     76<-------------------------------------------------there are 76 callregisters in the idle queue
#
```

OMEGA MACHINES
(HOW TO PRINT THE QUEUES IN DEBUG)

```
$$
PSWD ?

#P 710 75<--------The address can range from 710 to 750

000710 : 000000 000000 000001 000711 000001 000000 000001 000001   BLUE=QUEUE NUMBER
000718 : 000716 000001 000000 000002 000001 00071B 000001 000000  RED=# OF CALLREGISTERS
000720 : 000003 1F014E 1F014E 000001 000001 000004 000001 000725  in HEX
000728 : 000001 000000 000005 000001 00072A 000001 000000 000006  PURPLE=EXAMPLE
000730 : 000001 00072F 000001 000000 000007 000001 000734 000001
000738 : 000000 000008 000001 000739 000001 000000 000009 000001
000740 : 00073E 000001 000000 00000A 000001 000743 000001 000000
000748 : 00000B 000001 000748 000001 000000 00000C 1F20B0 1F1505<---example:"C" queue is the "idle"
000750 : 000001 000046 00000D 000001 000752 000001 000000 00000E       queue, the number of call-
```

000758 : 000001 000757 000001 000000 00000F 000001 00075C 000001
000760 : 000000 000010 000001 000761 000001 000000 000011 000001
000768 : 000766 000001 000000 000012 000001 00076B 000001 000000
000770 : 000013 000001 000770 000001 000000 000014 000001 000775
000778 : 000001 000000 000015 000001 00077A 000001 000000 000016
000780 : 000001 00077F 000001 000000 etc……..
#O D 46 <---Convert HEX to DECIMAL
00000070<---There are 70 call registers in the idle queue
#

registers in this queue is "46"
this value is in HEX, to convert
to DECIMAL see below.

By Allen Russell