

BOOTMGR> PRO

ENABLED: Boot Progress messages.

BOOTMGR> SYSB

ENABLED: SYSBOOT messages.

BOOTMGR> XDELTA

ENABLED: Loading of XDELTA and initial breakpoint.

BOOTMGR> PAGE

ENABLED: PAGE scrolling mode.

BOOTMGR> B

%VMS_BOOTMGR-W-MAIN, Unable to open the environment file. Status: 14

%VMS_BOOTMGR-W-MAIN, DISABLED: Crash Dump Processing.

%VMS_BOOTMGR-I-MAIN, Allocating Kernel Memory...

%VMS_BOOTMGR-I-SMP, Enumerating Processors...

%VMS_BOOTMGR-I-MEMDISK, Network Source URL:

%VMS_BOOTMGR-I-MEMDISK, Mounting MemoryDisk...

%VMS_BOOTMGR-I-MEMDISK, Loading MemoryDisk from the UEFI partition...

%VMS_BOOTMGR-I-MEMDISK, Loading SYSBOOT from the System partition...

00000000: 7F 45 4C 46 02 01 01 0D-02 00 00 00 00 00 00 00 *..ELF.....*

00000010: 02 00 3E 00 01 00 00 00-00 20 50 00 00 00 00 00 *..>..... P.....*

00000020: 48 00 00 00 00 00 00 00-00 D6 0F 00 00 00 00 00 *H.....*

00000030: 05 00 00 00 48 00 38 00-06 00 40 00 05 00 01 00 *....H.8...@.....*

00000040: 01 00 00 00 00 00 00 00- *.....*

%VMS_BOOTMGR-I-HWRPB, Initializing Kernel Data Structures...

%VMS_BOOTMGR-I-SMBIOS, Configuring System Management Interface...

%VMS_BOOTMGR-W-HWRPB, Undefined IPMI Management Interface.

%VMS_BOOTMGR-I-HWRPB, Initializing HWRPB for Primary Kernel...

%VMS_BOOTMGR-I-DEVICE, System Disk Unit Number: -1 (Type:0)

%VMS_BOOTMGR-I-TRANSFER: Starting VSI OpenVMS...

%VMS_BOOTMGR-S-SMP, Processor 1 is Available...

%VMS_BOOTMGR-S-SMP, Processor 2 is Available...

%VMS_BOOTMGR-S-SMP, Processor 3 is Available...

%%%%%%%% VSI OpenVMS (tm) x86-64 Operator Console %%%%%%%%%

Welcome to VSI OpenVMS SYSBOOT, Baselevel XELO, built on May 29 2018 11:36:52

Parameter passed from the boot manager to SYSBOOT:

HWRPB: 0x00000000.00800000 size 0x00000000.00097000

HWRPB checksum ok, value = 9f254b09ddc0ef9c

Key locations and sizes:

Kernel Base: 0x00000000.00200000 size 0x00000000.00100000

ConIoTable: 0x00000000.D93C5F18

System Table: 0x00000000.D93A8F18

SYSBOOT: 0x00000000.00400000 size 0x00000000.00300000

Memory Disk: 0x00000000.01400000 size 0x00000000.10000000

SWRPB address 0x00405430

SYSBOOT message flags address 0x00405448 value 0x000A0001
XLDELTA on Debug port
VSI VMS X86 XDELTA Debugger

Brk 0 at 00489AED

00489AED!movq \$00000042,%rax ;P

%SYSBOOT-I-MEMDISKMOUNT, Boot memory disk mounted
%SYSBOOT-I-LOADPARAM, Loading parameter file X86_64VMSSYS.PAR
Parameter file is 11264 bytes long (22 blocks)
boo\$loadBootfile: loading parameter file
boo\$usefile: Parameter file read in successfully
%SYSBOOT-I-LOADFILE, Loaded file [SYS0.SYSEXE]X86_64VMSSYS.PAR
%SYSBOOT-I-MEMDISKDISMOUNT, Boot memory disk dismounted
Best PXML memory ranges: 40005000 7FFCEFFF 0 21FDFFFF
System physical memory range is 0 to 21fdffff, size 1f9884000h bytes (excluding memory holes)
%SYSBOOT-I-ALLOCMAPBLT, Allocation bitmap built
SYSBOOT Allocation bitmap address 40005000 size 8000h bytes first available 4000d
SYSBOOT allocation bitmap covers contiguous physical memory from 40005000 to 7ffcefff
Creating the PFN memory map
count 11FE00, phypgcnt 1F9884, mem_limit FFFFFFFFFFFFFFF0
%SYSBOOT-I-PFNMAP, PFN memory map created
Creating the S0 space page tables
S0 space page tables created
Remapping memory disk to S2 space
Memory disk pa = 000000001400000, size = 10000000 bytes
Memory disk va = FFFF828000000000, size = 10000000 bytes
%SYSBOOT-I-MAP_MEMDSK, Boot memory disk remapped to S2 space
%SYSBOOT-I-MEMDISKMOUNT, Boot memory disk mounted
%SYSBOOT-I-LOADPARAM, Loading parameter file X86_64VMSSYS.PAR
Parameter file is 11264 bytes long (22 blocks)
boo\$loadBootfile: loading parameter file
boo\$usefile: Parameter file read in successfully
%SYSBOOT-I-LOADFILE, Loaded file [SYS0.SYSEXE]X86_64VMSSYS.PAR
Base RAD memsize 21FE00h pages
Allocating loader huge pages.
Calculated NPAGEDYN: 4000000 bytes
Calculated NPAGEVIR: 104C4000 bytes
Huge Page Summary

Huge Page Type	Virtual Address	Physical Address	Size (Bytes)	Slice
SHOULD BE EMPTY	0000000000000000	0000000000000000	0000000000000000h	000000h
execlet S0 data	URKW ffffffff80000000	0000000040200000	0000000010000000h	000200h
exec S0 data	ERKW ffffffff81800000	0000000041200000	0000000046000000h	001000h
SHOULD BE EMPTY	0000000000000000	0000000000000000	0000000000000000h	000000h
resident S0 data	URKW ffffffff81000000	0000000045800000	0000000008000000h	000200h
exec S2 data	ERKW ffff828016a00000	0000000046000000	0000000020000000h	001000h
execlet S2 code	UR ffff828010200000	0000000048000000	0000000020000000h	000100h
resident S2 code	UR ffff828012200000	000000004a000000	0000000048000000h	001000h
execlet S2 data	ERKW ffff828018a00000	000000004e800000	0000000040000000h	000200h
execlet RO S0 data	UR ffff82801ca00000	0000000052800000	0000000040000000h	000200h
resident RO S0 data	UR ffff828020a00000	0000000056800000	0000000040000000h	000200h

%SYSBOOT-I-ALLOCPGS, Loader huge pages allocated
Loading base system images
<PAGE>Attempting to load execlet SYS\$PUBLIC_VECTORS.EXE
ldr\$load_image: Attempting to open image SYS\$PUBLIC_VECTORS.EXE without filename descriptor
Segment summary for image SYS\$PUBLIC_VECTORS:

segment	VA	size (bytes)	link base	link end	type	flags
0	ffff828010200000	0000000000000021	000000000010000	000000000010021	00000001	08400005
1	fffffff800000000	0000000000000064	000000000014000	000000000014064	00000001	00400006
2	fffffff800000200	0000000000000058	000000000018000	000000000018058	00000001	00400004
3	ffff828010200100	0000000000000c540	00000000001c000	000000000028540	00000001	00500005
4	ffff828024a00000	000000000012868	0000000080000000	0000000080012868	00000002	00000004

calling ldr\$fixup_elf for image SYS\$PUBLIC_VECTORS
Relocating SYS\$PUBLIC_VECTORS for 1893 relocations

All relocations processed successfully for image SYS\$PUBLIC_VECTORS
 %SYSBOOT-I-LOADFILE, Loaded file [VMS\$COMMON.SYSLIB]SYS\$PUBLIC_VECTORS.EXE
 Execlet SYS\$PUBLIC_VECTORS.EXE loaded
 Attempting to load_execlet SYS\$BASE_IMAGE.EXE
 ldr\$load_image: Attempting to open image SYS\$BASE_IMAGE.EXE without filename descriptor
 fixed-offset segment 0 is segment number 1
 image has 1 fixed-offset segments
 base segment VA ffff82801020c700 fixed segment VA ffff828010218700 base link base 10000 fixed
 link base 1c000

Segment summary for image SYS\$BASE_IMAGE:

segment	VA	size (bytes)	link base	link end	type	flags
0	ffff82801020c700	000000000000ab20	000000000010000	00000000001ab20	00000001	08500005
1	ffff828010218700	0000000000000060	00000000001c000	00000000001c060	00000001	04500004
2	ffffffff80000400	0000000000018f94	000000000020000	000000000038f94	00000001	08400006
3	ffffffff80019400	000000000001718	00000000003c000	00000000003d718	00000001	00400006
4	ffffffff8001ac00	000000000000c78	000000000040000	000000000040c78	00000001	00400004
5	ffff828010218800	00000000000432d0	000000000044000	0000000000872d0	00000001	00500005
6	ffff828024a13000	000000000006b498	000000080000000	00000008006b498	00000002	00000004

calling ldr\$fixup_elf for image SYS\$BASE_IMAGE

Relocating SYS\$BASE_IMAGE for 10981 relocations

190 relocations could not be processed for image SYS\$BASE_IMAGE

%SYSBOOT-I-LOADFILE, Loaded file [VMS\$COMMON.SYS\$LDR]SYS\$BASE_IMAGE.EXE

Execlet SYS\$BASE_IMAGE.EXE loaded

%SYSBOOT-I-LOADSYSIMGS, Base system images loaded

SYSBOOT elf header address 511a60

Fixing up SYSBOOT references to base images.

segment 0 link base 400000

segment 1 link base 426000

segment 2 link base 4e0000

segment 3 link base 4ec000

segment 4 link base 502000

segment 5 link base 504000

calling ldr\$fixup_elf for image SYSBOOT

Segment summary for image SYSBOOT:

segment	VA	size (bytes)	link base	link end	type	flags
0	0000000000400000	000000000025590	000000000040000	0000000000425590	00000001	00000006
1	0000000000426000	0000000000aaa61	0000000000426000	00000000004d0a61	00000001	00100005
2	00000000004e0000	00000000000a470	00000000004e0000	00000000004ea470	00000001	06100004
3	00000000004ec000	00000000001475f	00000000004ec000	000000000050075f	00000001	00000004
4	0000000000502000	000000000000030	0000000000502000	0000000000502030	00000001	00100005
5	0000000000504000	00000000000da60	0000000000504000	0000000000511a60	00000002	00000004

SYSBOOT references to base images fixed up.

Initializing key system data cells

%SYSBOOT-I-INITDATA, Key system data cells initialized

swp\$gq_balbase = ffffffff922c4000

swp\$gq_wslbase = ffff82802d3f8000

Creating the SYSPHD

mmg\$gq_sysphd = ffffffff81800000

mmg\$gq_syswsl = ffffffff81814000

Creating paged and nonpaged pools

Allocating paged Pool

Paged pool address ffffffff81835000 size 400000h bytes

Allocating Nonpaged Pool

<PAGE>Nonpaged pool address ffffffff81e00000 size 400000h bytes

Nonpaged pool expansion region address ffffffff85e00000 size c4c4000h bytes

%SYSBOOT-I-POOLINIT, Nonpaged and paged pool created

Allocating the error log buffers

S0 error log buffers allocated at address ffffffff81c35000

S2 error log buffers allocated at address ffff828016a00000

%SYSBOOT-I-ALLOCERL, Error log buffers allocated

Fixing up PXML database

Copying PXML database to S2 space

PXML database copied to address ffff82803d076000

%SYSBOOT-I-PXMLCOPY, The PXML database has been copied to S2 space

Primary CPU database ffffffff81e00000

%SYSBOOT-I-CREATECPUDB, The CPU database has been created

Copying the SWRPB and remapping the HWRPB

Remapped HWRPB to FFFFFFFF92636000 copied SWRPB to FFFFFFFF81E01000

%SYSBOOT-I-REMAP, The HWRPB and SWRPB have been moved to system space

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Initializing the primary CPU database and kernel stack
Allocating the system kernel stack
first kstack guard page allocated at ffffffff926cd000
kernel stack allocated at ffffffff926ce000 for 0x5 pages
second kstack guard page allocated at ffffffff926d3000
Kernel stack pointer/base ffffffff926d3000 limit ffffffff926ce000
icpuadb: mcheck logout 0, still to be done
%SYSBOOT-I-INITCPUDB, The primary CPU database has been initialized
Initializing the global page table
%SYSBOOT-I-GPTINIT, Global page table initialized
Creating the PFN database
TODO: copy SYI memory map to NPP
%SYSBOOT-I-CREPFNDB, The PFN database has been created
%SYSBOOT-I-LOADEXEC, Loading execlsets
Attempting to load execlset SYS$PLATFORM_SUPPORT.EXE
ldr$load_image: Attempting to open image SYS$PLATFORM_SUPPORT.EXE without filename descriptor
ldr$load_image: Failed to open image SYS$PLATFORM_SUPPORT.EXE, status = 00000910
%SYSBOOT-E-LDFAIL, execlset SYS$PLATFORM_SUPPORT.EXE not found and not loaded, status = 00000910
Attempting to load execlset ERRORLOG.EXE
ldr$load_image: Attempting to open image ERRORLOG.EXE without filename descriptor
ldr$load_image: Failed to open image ERRORLOG.EXE, status = 00000910
%SYSBOOT-E-LDFAIL, execlset ERRORLOG.EXE not found and not loaded, status = 00000910
Attempting to load execlset SYS$ACPI.EXE
ldr$load_image: Attempting to open image SYS$ACPI.EXE without filename descriptor
fixed-offset segment 0 is segment number 3
image has 1 fixed-offset segments
base segment VA ffff82801025bb00 fixed segment VA ffff8280102fbb00 base link base 2c000 fixed
link base cc000
Segment summary for image SYS$ACPI:
  segment      VA              size (bytes)      link base      link end      type      flags
  0 ffffffff8001ba00 0000000000005a78 000000000010000 000000000015a78 00000001 00400006
  1 ffffffff80021600 000000000001126e 0000000000018000 00000000002926e 00000001 00400004
  2 ffff82801025bb00 00000000000087040 000000000002c000 00000000000b3040 00000001 0a400005
  3 ffff8280102fbb00 000000000000d2c8 00000000000cc000 00000000000d92c8 00000001 06500004
  4 ffffffff80032a00 0000000000011e2c 000000000000dc000 00000000000ede2c 00000001 00400006
  5 ffff82803d099000 00000000000000a4 00000000000f0000 00000000000f00a4 00000001 00200007
  6 ffff828010308e00 0000000000000030 00000000000f4000 00000000000f4030 00000001 00500005
  7 ffff82803d09a000 0000000000015040 0000000080000000 0000000080015040 00000002 00000004
calling ldr$fixup_elf for image SYS$ACPI
Relocating SYS$ACPI for 2048 relocations
1 relocations could not be processed for image SYS$ACPI
%SYSBOOT-I-LOADFILE, Loaded file [VMS$COMMON.SYS$LDR]SYS$ACPI.EXE
Execlset SYS$ACPI.EXE loaded
Attempting to load execlset SYSTEM_PRIMITIVES_0.EXE
ldr$load_image: Attempting to open image SYSTEM_PRIMITIVES_0.EXE without filename descriptor
ldr$load_image: Failed to open image SYSTEM_PRIMITIVES_0.EXE, status = 00000910
%SYSBOOT-E-LDFAIL, execlset SYSTEM_PRIMITIVES_0.EXE not found and not loaded, status = 00000910
Attempting to load execlset SYSTEM_SYNCHRONIZATION.EXE
<PAGE>ldr$load_image: Attempting to open image SYSTEM_SYNCHRONIZATION.EXE without filename
descriptor
ldr$load_image: Failed to open image SYSTEM_SYNCHRONIZATION.EXE, status = 00000910
%SYSBOOT-E-LDFAIL, execlset SYSTEM_SYNCHRONIZATION.EXE not found and not loaded, status = 00000910
Attempting to load execlset SYSTEM_DEBUG.EXE
ldr$load_image: Attempting to open image SYSTEM_DEBUG.EXE without filename descriptor
fixed-offset segment 0 is segment number 3
image has 1 fixed-offset segments
base segment VA ffff828010308f00 fixed segment VA ffff828010378f00 base link base 18000 fixed
link base 88000
Segment summary for image SYSTEM_DEBUG:
  segment      VA              size (bytes)      link base      link end      type      flags
  0 ffffffff80044a00 0000000000001d70 000000000010000 000000000011d70 00000001 00400006
  1 ffffffff80046800 0000000000003fa7 0000000000014000 0000000000017fa7 00000001 00400004
  2 ffff828010308f00 00000000000066919 0000000000018000 000000000007e919 00000001 0a400005
  3 ffff828010378f00 0000000000004798 0000000000088000 000000000008c798 00000001 06500004
  4 ffffffff8004a800 00000000000042a8 0000000000090000 00000000000942a8 00000001 00400006
  5 ffff82803d0b0000 00000000000000a4 0000000000098000 00000000000980a4 00000001 00200007
  6 ffff82801037d700 0000000000000030 000000000009c000 000000000009c030 00000001 00500005
  7 ffff82803d0b1000 0000000000008f40 0000000080000000 0000000080008f40 00000002 00000004
calling ldr$fixup_elf for image SYSTEM_DEBUG

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Relocating SYSTEM_DEBUG for 872 relocations
2 relocations could not be processed for image SYSTEM_DEBUG
%SYSBOOT-I-LOADFILE, Loaded file [VMS$COMMON.SYS$LDR]SYSTEM_DEBUG.EXE
Execlet SYSTEM_DEBUG.EXE loaded
Attempting to load execlet EXEC_INIT.EXE
ldr$load_image: Attempting to open image EXEC_INIT.EXE without filename descriptor
fixed-offset segment 0 is segment number 3
image has 1 fixed-offset segments
base segment VA ffff82801037d800 fixed segment VA ffff8280103c9800 base link base 1c000 fixed
link base 68000
Segment summary for image EXEC_INIT:
segment      VA              size (bytes)      link base      link end      type      flags
  0 ffffffff8004ec00 0000000000000f1c 0000000000010000 0000000000010f1c 00000001 00400006
  1 ffffffff8004fc00 0000000000004068 0000000000014000 0000000000018068 00000001 00400004
  2 ffff82801037d800 00000000000042e71 000000000001c000 000000000005ee71 00000001 0a400005
  3 ffff8280103c9800 0000000000006000 0000000000068000 000000000006e000 00000001 06500004
  4 ffffffff80053e00 0000000000007c36 0000000000070000 0000000000077c36 00000001 00400006
  5 ffff82803d0ba000 0000000000007e18 0000000080000000 0000000080007e18 00000002 00000004
calling ldr$fixup_elf for image EXEC_INIT
Relocating EXEC_INIT for 575 relocations
360 relocations could not be processed for image EXEC_INIT
%SYSBOOT-I-LOADFILE, Loaded file [VMS$COMMON.SYS$LDR]EXEC_INIT.EXE
Execlet EXEC_INIT.EXE loaded
%SYSBOOT-I-LOADEXEC, Execlets loaded
boo$init_listheads needs much work
S0 free_pte_count = 300
S0 allocation base ffffffff926d4000 next VA ffffffff92800000
S2 allocation base ffffffff7ffff000
VSI VMS X86 XDELTA Debugger

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Brk 0 at 00489AED

00489AED!movq \$00000042,%rax ;L

Seq#	LDRISD	Image Name	Base	End	Link	End
0008	81E02600	EXEC_INIT				
	0	81E02738	8004EC00	8004FB1C	00010000	00010F1C
	1	81E02788	8004FC00	80053C68	00014000	00018068
	2	81E027D8	1037D800	103C0671	0001C000	0005EE71
	3	81E02828	103C9800	103CF800	00068000	0006E000
	4	81E02878	80053E00	8005BA36	00070000	00077C36
	5	81E028C8	3D0BA000	3D0C1E18	80000000	80007E18
0006	81E02200	SYSTEM_DEBUG				
	0	81E02338	80044A00	80046770	00010000	00011D70
	1	81E02388	80046800	8004A7A7	00014000	00017FA7
	2	81E023D8	10308F00	1036F819	00018000	0007E919
	3	81E02428	10378F00	1037D698	00088000	0008C798
	4	81E02478	8004A800	8004EAA8	00090000	000942A8

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5 81E024C8          3D0B0000 3D0B00A4 00098000 000980A4
6 81E02518          1037D700 1037D730 0009C000 0009C030
7 81E02568          3D0B1000 3D0B9F40 80000000 80008F40
0004 81E01780 SYS$ACPI
0 81E018B8          8001BA00 80021478 00010000 00015A78
1 81E01908          80021600 8003286E 00018000 0002926E
2 81E01958          1025BB00 102E2B40 0002C000 000B3040
3 81E019A8          102FBB00 10308DC8 000CC000 000D92C8
4 81E019F8          80032A00 8004482C 000DC000 000EDE2C
5 81E01A48          3D099000 3D0990A4 000F0000 000F00A4
6 81E01A98          10308E00 10308E30 000F4000 000F4030
7 81E01AE8          3D09A000 3D0AF040 80000000 80015040
0002 81E01E80 SYS$BASE_IMAGE
0 81E01FB8          1020C700 10217220 00010000 0001AB20
1 81E02008          10218700 10218760 0001C000 0001C060
2 81E02058          80000400 80019394 00020000 00038F94
3 81E020A8          80019400 8001AB18 0003C000 0003D718
4 81E020F8          8001AC00 8001B878 00040000 00040C78
5 81E02148          10218800 1025BAD0 00044000 000872D0
6 81E02198          24A13000 24A7E498 80000000 8006B498
          Symbol Vector          10218800
0000 81E01B80 SYS$PUBLIC_VECTORS
0 81E01CC0          10200000 10200021 00010000 00010021
1 81E01D10          80000000 80000064 00014000 00014064
2 81E01D60          80000200 80000258 00018000 00018058
3 81E01DB0          10200100 1020C640 0001C000 00028540
4 81E01E00          24A00000 24A12868 80000000 80012868
          Symbol Vector          10200100

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;P
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SYSBOOT Done!
Press Enter to continue

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