

[Internal] ESXi 4.0 Update 1 hosts hosting passive MSCS nodes with RDM LUNs take a long time to boot

Symptoms

- ESXi 4 Update 1 hosts take a long time to boot.
- The screen logging shows the boot waiting after:

```
Loading module multiextent.
```

- This is observed only on hosts with passive nodes from MSCS and RDM LUNs.
- The vmkernel log contains entries similar to:

```
Nov 26 01:36:17 vmkernel: 0:00:00:54.439 cpu1:4621)vmw_psp_mru:
psp_mruSelectPathToActivateInt: Changing active path from NONE to
vmhba0:C0:T0:L67 for device "Unregistered Device".
Nov 26 01:36:17 vmkernel: 0:00:00:54.439 cpu1:4621)VMWARE SCSI Id: Id
for vmhba0:C0:T1:L67
Nov 26 01:36:17 vmkernel: 0x60 0x05 0x08 0xb4 0x00 0x08 0xdb 0x2f 0x00
0x00 0xa0 0x00 0x02 0x99 0x00 0x00 0x48 0x53 0x56 0x33 0x30 0x30
Nov 26 01:36:17 vmkernel: 0:00:00:54.439 cpu1:4621)VMWARE SCSI Id: Id
for vmhba0:C0:T0:L67
Nov 26 01:36:17 vmkernel: 0x60 0x05 0x08 0xb4 0x00 0x08 0xdb 0x2f 0x00
0x00 0xa0 0x00 0x02 0x99 0x00 0x00 0x48 0x53 0x56 0x33 0x30 0x30
Nov 26 01:36:17 vmkernel: 0:00:00:54.439 cpu1:4621)VMWARE SCSI Id: Id
for vmhba1:C0:T1:L67
Nov 26 01:36:17 vmkernel: 0x60 0x05 0x08 0xb4 0x00 0x08 0xdb 0x2f 0x00
0x00 0xa0 0x00 0x02 0x99 0x00 0x00 0x48 0x53 0x56 0x33 0x30 0x30
Nov 26 01:36:17 vmkernel: 0:00:00:54.440 cpu1:4621)VMWARE SCSI Id: Id
for vmhba1:C0:T0:L67
Nov 26 01:36:17 vmkernel: 0x60 0x05 0x08 0xb4 0x00 0x08 0xdb 0x2f 0x00
0x00 0xa0 0x00 0x02 0x99 0x00 0x00 0x48 0x53 0x56 0x33 0x30 0x30
Nov 26 01:36:18 vmkernel: 0:00:00:54.882 cpu1:4621)ScsiCore: 1181: Sync
CR (opcode 28) at 992 (wid0)
Nov 26 01:36:19 vmkernel: 0:00:00:55.906 cpu1:4621)ScsiCore: 1181: Sync
CR (opcode 28) at 976 (wid0)
[Lines omitted]
Nov 26 01:36:57 vmkernel: 0:00:01:33.774 cpu4:4621)ScsiCore: 1181: Sync
CR (opcode 28) at 368 (wid0)
Nov 26 01:36:57 vmkernel: 0:00:01:34.484 cpu4:4621)ScsiDeviceIO: 1056:
CmdSN 0x0 to device aa.600508b40008db2f0000a00002990000 timed out:
expiry time occurs 44ms in the past
Nov 26 01:36:57 vmkernel: 0:00:01:34.484 cpu4:4621)WARNING:
ScsiDeviceIO: 1266: Failed to issue command (0x28) on device
naa.600508b40008db2f0000a00002990000: Timeout
Nov 26 01:37:37 vmkernel: 0:00:02:14.514 cpu4:4621)ScsiDeviceIO: 1056:
CmdSN 0x0 to device naa.600508b40008db2f0000a00002990000 timed out:
expiry time occurs 30ms in the past
Nov 26 01:37:37 vmkernel: 0:00:02:14.514 cpu4:4621)WARNING:
ScsiDeviceIO: 1266: Failed to issue command (0x28) on device
naa.600508b40008db2f0000a00002990000: Timeout
Nov 26 01:37:37 vmkernel: 0:00:02:14.514 cpu4:4621)WARNING: Partition:
705: Partition table read from device
naa.600508b40008db2f0000a00002990000 failed: Timeout
```

```
Nov 26 01:37:37 vmkernel: 0:00:02:14.514 cpu4:4621)ScsiDevice: 1830:  
Successfully registered device "naa.600508b40008db2f0000a00002990000"  
from plugin "NMP" of type 0
```

- Each LUN part of cluster takes approximately 80 seconds to complete the initialization.

Resolution

The **Scsi.UWConflictRetries** parameter for ESXi 4 Update 1 hosts has a default value of 1000. This increases the time spent enumerating LUN and VMFS volumes.

To resolve this issue and speed up the boot process, modify this value to 80.

To modify the **Scsi.ConflictRetries** parameter from the GUI:

1. Go to **Host > Configuration > Advanced settings**.
2. In the Advanced settings window, select **SCSI**.
3. Change the **Scsi.UWConflictRetries** value from the default 1000 to 80.