

2015 Connect OpenVMS Bootcamp

SYSMAN for Improved Management of Restarts

Robert Gezelter, <http://www.rlgsc.com>

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As a courtesy to your fellow attendees, please verify that all electronic devices are set on silent or vibrate.

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History

- ◆ Present STARTUP.COM dates from approximately VAX/VMS 5.0
- ◆ Before that, there was no STARTUP database
- ◆ Unfortunately, many continued to modify
`SYS$MANAGER:SYSTARTUP_VMS.COM`
- ◆ There is a better way: the STARTUP database

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Present day OpenVMS STARTUP Sequence

- ◆ Controlled by **SYS\$SYSTEM:STARTUP.COM**
- ◆ Details contained in STARTUP databases
- ◆ As shipped, two databases:
 - ◆ **VMS\$VMS.DAT** and **VMS\$LAYERED.DAT**

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STARTUP Phases

- ◆ Defined in `SYS$STARTUP:VMS$PHASES.DAT`
- ◆ Defaulted to INITIAL, DEVICES, PRECONFIG, CONFIG, BASEENVIRON, LPBEGIN, LPMAIN, LPBETA
- ◆ Phases can be added as needed

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Location of STARTUP Databases

◆ **SYS\$STARTUP:**

◆ **SYS\$SYSROOT: [SYS\$STARTUP] , SYS\$SYSROOT: [SYSMGR]**

◆ **SYS\$SYSROOT translates to:**

◆ **SYS\$SYSDEVICE: [SYSn.] , sys\$sysdevice: [SYSn.SYSCOMMON.]**

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STARTUP Database: **VMS\$LAYERED.DAT**

- ◆ Normally in common [**SYS\$STARTUP**]
- ◆ Search looks in **SYS\$STARTUP**:

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Invocation of **SYLOGICALS.COM**

◆ Normally invoked by

SYS\$STARTUP:VMS\$DEVICES.COM

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STARTUP Logging

- ◆ **STARTUP_P2** contains a “D”, output log will be written to **SYS\$SYSTEM:STARTUP.LOG**
- ◆ can be set in **SYSBOOT, SYSMAN, SYSGEN**

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General Pattern of STARTUP Files

- ◆ [**SYS\$STARTUP**] <facility> \$STARTUP.COM
- ◆ **SYS\$MANAGER:** <facility> \$SYSTARTUP.COM

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PCSI and STARTUP Database

- ◆ PCSI kits can automatically add entries to the STARTUP database
- ◆ No manual editing of startup files is required

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Example: **STARTUP\$INTERACTIVE_LOGINS**

- ◆ Used as part of enabling logins in **VMS\$LPBEGIN-050_STARTUP.COM**
- ◆ Should be defined in **SYLOGICALS.COM**



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Live examples

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Summary

- ◆ STARTUP is your friend
- ◆ You can use the STARTUP database
- ◆ STARTUP allows multiple operations in parallel
- ◆ STARTUP allows better control of system starts



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Questions?



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Questions

Slides and other materials:

<http://www.rlgsc.com/openvms-bootcamp/2014/sysman-restarts.html>



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SOFTWARE CONSULTANT
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Robert Gezelter Software Consultant

35-20 167th Street, Suite 215
Flushing, New York 11358-1731

gezelter@rlgsc.com
<http://www.rlgsc.com>

Voice: +1 (718) 463 1079