SYSMAN for Improved Management of Restarts

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SYSMAN for Improved Management of Restarts

OpenVMS Boot Camp 2014

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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
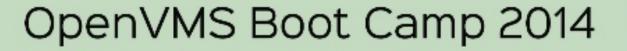
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Location of STARTUP Databases

◇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

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?

Slides and other materials:

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

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