

z/OS V1R13

BCP consoles:

CMDS ABEND and console mode default

Overview (CMDS ABEND)

- Problem Statement / Need Addressed
 - Canceling executing commands can cause system/sysplex outages.
- Solution
 - Reject attempts to cancel a command (via the CMDS ABEND command)
 - Implemented in z/OS V1R12
 - Allows a command to dynamically indicate when it is non-abendable
 - Need a way to terminate a command even if the command indicates that it should not be canceled via CMDS ABEND.
 - CMDS FORCE provided in z/OS V1R13
- Benefit / Value
 - While not a good idea to cancel a running command, if the only way to prevent an IPL is to terminate the command, CMDS FORCE may do it.

Overview (Console mode default)

- Problem Statement / Need Addressed
 - *Distributed mode* console support (aka the Console Restructure) was introduced in z/OS V1R10
 - Supporting two modes of operation greatly increases Consoles component size, complexity and service load
 - Consoles intends to retire *shared mode* console support in a future release
 - Customers need to be encouraged to move from *shared mode* to *distributed mode* before *shared mode* is retired
- Solution
 - Change the default console mode to *distributed mode* when no console mode is explicitly specified by the installation.
- Benefit / Value
 - Encourages customers to migrate prior to *shared mode* retirement
 - Sets the stage for eliminating dual-mode processing code

Usage and invocation (CMDS ABEND)

- The full CMDS syntax is:

```
CMDS{DISPLAY|D[,CMD=cccccccc]{,ID=nnnn[,CLASS=classname][,JOB=jobname]}
{SHOW|S[,CMD=cccccccc]{,ID=nnnn[,CLASS=classname][,JOB=jobname]}
{REMOVE|R[,CMD=cccccccc]{,ID=nnnn[,CLASS=classname][,JOB=jobname]}
{DUMP}
{ABEND,CMD=cccccccc,ID=nnnn[,CLASS=classname][,JOB=jobname]}
{FORCE,CMD=cccccccc,ID=nnnn[,CLASS=classname][,JOB=jobname]}
```
- Requests to FORCE a command that is non-Abendable will receive message:
CNZ6002I COMMAND *command* WITH ID *id* NOT ABENDABLE - OVERRIDDEN BY FORCE
- The command will be terminated
 - Abend code 422, reason code 00010302

Usage and invocation (CMDS ABEND)

- To control usage of the FORCE operand, the new security profile will be checked:
MVS.CMDS.FORCE
- Use the FORCE option with **extreme caution** since you are terminating a command that may be updating critical system data.
- Use this parameter **only as a last resort**, such as when a re-ipl is needed if the command is not terminated.

Usage and invocation (Console mode default)

- If an installation does not explicitly specify the mode of console operation, the system will now default to *distributed mode* console support rather than the *shared mode* console support which was the previous default.
- The default is only applied when the first system in a sysplex (or the only system) is IPL'd.
- Installations that are already explicitly specifying their mode of console operation are unaffected.

Migration and coexistence considerations

- CMDS ABEND
 - None
- Console mode default
 - A migration health check will be shipped for z/OS V1R11 and z/OS V1R12 (OA32930) that will encourage customers to specify their console mode. This health check becomes a “best practices” health check on z/OS V1R13 where it will begin to encourage customers to migrate to *distributed mode* if they are found to be operating in *shared mode*.

Installation

- CMDS ABEND
 - None

- Console mode default
 - To continue to use *shared mode* console support, you must explicitly request *shared mode* using the IEASYSxx CON= parameter.

Session summary

- Use the FORCE option with ***extreme caution*** since you are terminating a command that may be updating critical system data.
- Use this parameter ***only as a last resort***, such as when a re-ipl is needed if the command is not terminated.
- The mode of console operation will now default to *distributed mode* unless *shared mode* is explicitly requested.

Appendix - References

- SA22-7601 z/OS MVS Planning: Operations
- SA22-7627 z/OS MVS System Commands
- SA22-7592 z/OS MVS Initialization & Tuning Reference