

i TECH TIPS

By Glenn Gundermann

Power Down System (PWRDWSYS) with Confirmation

Have you ever had a problem with someone accidentally powering down the system? Are you worrying about this possibility? There is a feature that was added several years ago (V5R2) without much publicity. The Power Down System (PWRDWSYS) command has a CONFIRM parameter. If you are like most shops, it currently has a default value of *ENVVAR. The possible values are:

***ENVVAR** – The value in environment variable QIBM_PWRDWSYS_CONFIRM is used to determine whether the request should be confirmed. If the value is set to *INTERACT, *YES, or *NO, the action described below for that value is taken. If the environment variable is not defined or not set to one of these values, then there is no confirmation. System initiated power downs do not use the environment variable.

***INTERACT** – A confirmation panel is displayed when the PWRDWSYS command is issued in an interactive job. There is no confirmation when the PWRDWSYS command is issued in a non-interactive job.

***YES** – A confirmation panel is displayed when the PWRDWSYS command is issued in an interactive job. An inquiry message is sent to QSYSOPR when the PWRDWSYS command is issued in a non-interactive job.

***NO** – There is no confirmation when the PWRDWSYS command is issued.

Again, if you are like most shops, the environment variable QIBM_PWRDWSYS_CONFIRM is not defined. Since the environment variable is not defined, there is no confirmation performed when anyone or any job executes the PWRDWSYS command. To setup a confirmation, you can go about this in three different ways:

1. Change the command default for PWRDWSYS.

If you want the confirmation for all interactive and batch jobs, change the default value of the CONFIRM parameter to *YES.

```
CHGCMDFFT CMD(PWRDWSYS) NEWDFT('CONFIRM(*YES)')
```

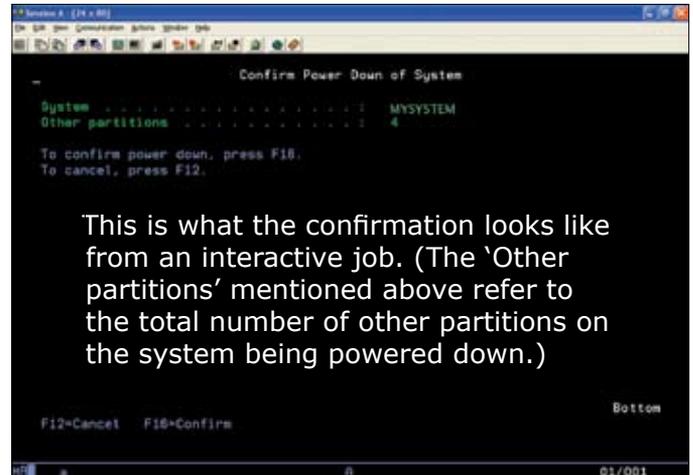
An interactive user will be prompted to confirm and a batch job will send an inquiry message to the QSYSOPR message queue. If you want the confirmation for just the interactive jobs, change the default value to *INTERACT. This means that if a batch job executes the PWRDWSYS command, there will be no confirmation.

2. Create the environment variable QIBM_PWRDWSYS_CONFIRM.

Go to the Environment Variable Commands menu: GO CMDENVVAR.

- | | |
|--------------------------------|-----------|
| 1. Add Environment Variable | ADDENVVAR |
| 2. Change Environment Variable | CHGENVVAR |
| 3. Remove Environment Variable | RMVENVVAR |
| 4. Work with Environment Var | WRKENVVAR |

Use option 1 to create the variable and set it to your desired value.



This is what the confirmation looks like from an interactive job. (The 'Other partitions' mentioned above refer to the total number of other partitions on the system being powered down.)

3. Create a program and use an exit point for the PWRDWSYS command.

The Power Down System exit point (QIBM_QWC_PWRDWSYS) can be used to register a program that is called when the PWRDWSYS command is used. For example:

```
ADDEXITPGM EXITPNT(QIBM_QWC_PWRDWSYS)
            FORMAT(PWRD0100)
            PGMNBR(1)
            PGM(lib-name/exit-pgm-name)
            TEXT('Power Down System confirmation +
            from QSYSOPR')
```

You could perform any function you want in this program, including a confirmation from QSYSOPR. For example:

```
PGM
DCL      VAR(&MSGRPY) TYPE(*CHAR) LEN(1)
SDNUSRMSG MSGID(CPF9897) MSGF(QCPFMSG) +
MSGDTA('PWRDWSYS has been requested. +
Enter G when ready to continue.') +
VALUES('G') TOUSR(QSYSOPR) +
MSGRPY(&REPLY)
ENDPGM
```

Stay tuned for more i Tech Tips in future issues. If you have a technical question, or if you have a technical solution that you would like to share, please let me know. 

Glenn Gundermann is an independent consultant, specializing in RPG IV programming. Glenn also instructs at IBM and customer sites in North America, with a repertoire that includes RPG IV, SQL, WDS, WebSphere Application Server, Operations, BRMS, WebFacing, HATS, CL Programming, DB2, iSeries Navigator, Query, Performance Analysis & Capacity Planning, Security Concepts & Planning, plus more. Glenn can be contacted at ggundermann@tug.ca or (647) 272-3295.