

Q-SCHEDULER (CRON)

CRON enables you to run programs automatically at a scheduled time. There is about a 5 minute window of time that DPS has scheduled for an automatic system reboot and this needs to be taken into consideration when scheduling CRON jobs. This time is usually set for once a week on Saturday at 2 AM. Check with DPS for the specific time.

The codes that can be run in CRON are 830, EOD, ARUN, CRDA, 805, M801, E202, E203 and B50MPORT. Codes EOD, 805, 830 and M801 use the tape drive so they must not be set to run at the same time. Someone must remember to load a tape in the drive before leaving on the days that CRON is set to run.

Following are the instructions on how a code is set up to run using CRON. This example uses EOD. To activate other programs, key in its code number in place of EOD.

***Special Note for CRDA:** This code must be set up for each specific run. Additionally, if this code is being set up on a day different than the day that it will run, special attention must be paid to the date entered. The CRDA code currently takes the system date and subtracts 120 days (180 for TDS format) to automatically set this date. This code must be set for the correct number of days back if setup on a different day than being run.

1. Enter EOD at menu.
2. At select printer prompt, press F8.
3. The prompt "RUN THIS PROGRAM AUTOMATICALLY (Y/N):" displays at the bottom of the screen. Key 'Y'.
4. The prompt will return to the EOD program. At select printer, enter the printer number you want the report to print on when the program runs.
5. Select 'Y' to Backup files. Make sure you have a tape in the tape drive.

After you have entered these prompts, CRON is called and the following screen displays. The information is filled in to show you how you will enter the date when you set it up.

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                                CRON - SETUP AUTO PROCESS
F  H  USER      PROGRAM      MINUTE  HOUR      DAY/MONTH  MONTH  DAY/WEEK
_  4  dps        EOD          0_____ 23_____ *_____ *_____ 1-5_____
TERM=vt20 /u/dps/bin/cron.rc mag 4 EOD >/tmp/EOD.log 2>&1_____

```

Following is an explanation of the prompts that appear on the screen.

F - Run Flag

Blank - Run the program over and over at the specified date and time.

1 - Run the program only once at the specified date and time. This flag will change to an "S" when the program is run.

S - Do not run the program, but save this information because it will be used again.

D - Do not run the program, delete this record.

H - Home Data Area Flag

1 - DATA AREA 1

2 - DATA AREA 2, etc.

USER -The User Who Owns This Job

For now the USER is always dps, it cannot be changed.

PROGRAM - The Run Program

This is the program code that is to be run automatically.

MINUTE - Minute The Program Will Run

Valid data is 0 - 59 minutes. You could run a program every half hour by entering 0,30 in the field. An asterisk (run every minute) in this field is not allowed.

HOUR - Hour The Program Will Run

Valid data is 0 - 23 hours. Again, you could run EOD twice a day by entering 12,23. An asterisk (run every hour) in this field is not allowed.

DAY/MONTH - Day Of The Month To Run The Program

This field is usually left with an asterisk to run every day. The DAY OF THE WEEK field will override it.

MONTH - Month To Run The Program

This field is usually left with an asterisk to run every month.

DAY/WEEK - Day Of The Week To Run The Program

Valid data is 0 - 6 (Sunday through Saturday). If you want the program to run daily during the work week, enter 1-5. For a job to run Monday, Wednesday and Friday by enter 1,3,5. Note: If you have a job set to run at 2 AM and you want it to run daily during the work week, you would enter 2-6 or 0-4.

COMMAND LINE

The second line on the screen is the command that will actually run. It can be changed but most of the time should be left as it is.

When you have entered all of the data, press F9 to save what was entered. The message 'EOD WILL RUN AUTOMATICALLY' will display. Press enter to return to the menu. If the RUN FLAG is an 'S' or 'D' you are given the option to run the program immediately. The message 'CONTINUE WITH EOD NOW (Y/N)' displays.

The EOD will now run at the specified day and time automatically. To see that the job was run, look at the printed reports and check Code X998. X998 displays whether or not the job was successful and the time it completed. If the job was not successful, the last program that ran displays.

X998 - CHECK LAST RUN STATUS

LAST EOD WAS SUCCESSFUL		MM/DD/YY HH:MM AM or PM
LAST EOD NOT SUCCESSFUL	PPPP	MM/DD/YY HH:MM AM or PM
LAST 179 WAS SUCCESSFUL		MM/DD/YY HH:MM AM or PM
LAST 179 NOT SUCCESSFUL	PPPP	
LAST ARUN COMPLETED, RUN A998 OR A999		
LAST ARUN ACCEPTED	A999	MM/DD/YY
LAST ARUN HAD ERROR	PPPP	
LAST E205 SUCCESSFUL FOR BBBBBBBB		MM/DD/YY HH:MM AM or PM
LAST E205 NOT SUCCESSFUL		
LAST 830 WAS SUCCESSFUL		MM/DD/YY HH:MM AM or PM
LAST 830 NOT SUCCESSFUL	PPPP	MM/DD/YY HH:MM AM or PM
LAST REORG WAS SUCCESSFUL		MM/DD/YY HH:MM AM or PM
LAST REORG NOT SUCCESSFUL	PPPP	MM/DD/YY HH:MM AM or PM