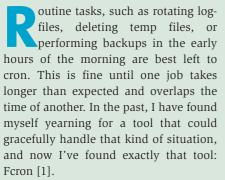
The Sysadmin's Daily Grind: Fcron On Schedule

Cron executes the jobs you hand to it reliably and on schedule. This legacy tool just ticks away like a Swiss watch, completely unfazed by external influences – unfortunately that is not always a good thing. BY CHARLY KÜHNAST



Fcron version 2.0.1. has just gone stable. Fcron's author. Thibault Godouet, looks set to put the good old vixie cron out of a job. To do so, Thibault has equipped the tool with all kinds of extra goodies. Installing fcron is trivial. After unpacking the 142KBytes source files, simply enter:

./configure && make && ₽ make install

If so desired, the installation routine will add the program to your startup scripts. Following the pattern typical of cron, fcron uses an fcrontab file. You can enter *fcrontab -e* to edit the file. This is where

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SWIG Programming......58

It is not always possible to write every bit of your code in your programming language of choice. SWIG lets you make C wrappers and scripting easier.

Admin Workshop: DNS62 Dynamic DNS assignment by your ISP has always meant you cannot run web services. That is until now. We explore how you can make changing IP addresses automatic. the similarities between the old and new versions stop. Although the structure and syntax of fcrontab are based on the legacy role model, there are some differences.

To get started, let's tell fcron to do something that cron can do: I want fcron to run the */bin/date* command at five minutes to every full hour. The *fcrontab* entry looks like this:

5 0 * * * /bin/date

What's new with fcron is its ability to launch commands relative to a computer's uptime. I want to run */bin/date* every two and a half hours, starting at system boot time:

@ 2h30m /bin/date

Be Nice!

You can assign a nice value to a program for jobs that put a heavy load on the system:

&nice(10) 0 1 * * * /usr/local
/shellscripts/MyBackupScript.sh

The following line runs a command on the hour between 2.00 pm and 10 pm:

0 14-22 * * * /bin/date

To launch *date* every second(!) hour, I need to modify the entry as follows:

Fcron also supports exceptions: to run a command on weekdays but not on Sun-



days, another slight change to the command is required:

0 14-22/2 * * *~0 /bin/date

In other words, fcron treats elements with the tilde character (\sim) as exceptions. Fcron's ability to check the system load is one of its neatest features. The following line launches a command called */bin/heavyjob/* once an hour – but only if the mean system load (loadavg) over a five minute period is below a threshold of 1.5:

@lavg5(1.5) 1h /bin/heavyjob

The useful manpage installs along with fcron or fcrontab. It contains detailed references for fcron options, and examples. In my case at least, the good old cron tool is out of a job.

INFO

[1] Fcron: *http://fcron.free.fr*

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