



estimatecron-sample

This webpage provides a sample solution to the **CITS2002 Systems Programming 1st project**.

To execute this sample, enter the required month (of the current year) into the textbox, select *your* crontab-file and estimates-file (from your local computer), or type crontab- and estimates- lines into the textboxes, and press 'Execute' to run the sample solution using your information. **See also the recording of Workshop-5.**

month:

crontab-file: No file selected.

estimates-file: No file selected.

```
# execute a command at 3AM
every day
0 3 * * *      daily-
backup
#
# execute a command at
```

```
# format:  command-name
minutes
weekly-backup
6
daily-backup
2
```

Sample solution's *stdout*:

Last line:

daily-backup 37 1

All output (mostly debug output - not required):

```
estimates entries:
weekly-backup 6
daily-backup 2
send-monthly-newsletter 10
submit-project 1
deep-thought 600

crontab entries:
0 3 * * *      daily-backup
15 4 * * *     weekly-backup
0 10 22 7 1    deep-thought
59 16 16 8 *   submit-project
0 2 1 * *      send-monthly-newsletter

@02:00 01/aug
invoke (pid=1, nrunning=1)      0 2 1 * *      send-monthly-newsletter
@02:10 01/aug
has-terminated (pid=1, nrunning=0)      send-monthly-newsletter
@03:00 01/aug
invoke (pid=2, nrunning=1)      0 3 * * *      daily-backup
@03:02 01/aug
has-terminated (pid=2, nrunning=0)      daily-backup
@03:00 02/aug
invoke (pid=3, nrunning=1)      0 3 * * *      daily-backup
@03:02 02/aug
has-terminated (pid=3, nrunning=0)      daily-backup
@03:00 03/aug
invoke (pid=4, nrunning=1)      0 3 * * *      daily-backup
@03:02 03/aug
has-terminated (pid=4, nrunning=0)      daily-backup
@03:00 04/aug
invoke (pid=5, nrunning=1)      0 3 * * *      daily-backup
@03:02 04/aug
has-terminated (pid=5, nrunning=0)      daily-backup
@03:00 05/aug
invoke (pid=6, nrunning=1)      0 3 * * *      daily-backup
@03:02 05/aug
has-terminated (pid=6, nrunning=0)      daily-backup
@03:00 06/aug
invoke (pid=7, nrunning=1)      0 3 * * *      daily-backup
@03:02 06/aug
has-terminated (pid=7, nrunning=0)      daily-backup
@03:00 07/aug
invoke (pid=8, nrunning=1)      0 3 * * *      daily-backup
@03:02 07/aug
```

@04:15	07/aug	has-terminated (pid=8, nrunning=0)					daily-backup
		invoke (pid=9, nrunning=1)	15	4	*	*	0 weekly-backup
@04:21	07/aug	has-terminated (pid=9, nrunning=0)					weekly-backup
@03:00	08/aug	invoke (pid=10, nrunning=1)	0	3	*	*	* daily-backup
@03:02	08/aug	has-terminated (pid=10, nrunning=0)					daily-backup
@03:00	09/aug	invoke (pid=11, nrunning=1)	0	3	*	*	* daily-backup
@03:02	09/aug	has-terminated (pid=11, nrunning=0)					daily-backup
@03:00	10/aug	invoke (pid=12, nrunning=1)	0	3	*	*	* daily-backup
@03:02	10/aug	has-terminated (pid=12, nrunning=0)					daily-backup
@03:00	11/aug	invoke (pid=13, nrunning=1)	0	3	*	*	* daily-backup
@03:02	11/aug	has-terminated (pid=13, nrunning=0)					daily-backup
@03:00	12/aug	invoke (pid=14, nrunning=1)	0	3	*	*	* daily-backup
@03:02	12/aug	has-terminated (pid=14, nrunning=0)					daily-backup
@03:00	13/aug	invoke (pid=15, nrunning=1)	0	3	*	*	* daily-backup
@03:02	13/aug	has-terminated (pid=15, nrunning=0)					daily-backup
@03:00	14/aug	invoke (pid=16, nrunning=1)	0	3	*	*	* daily-backup
@03:02	14/aug	has-terminated (pid=16, nrunning=0)					daily-backup
@04:15	14/aug	invoke (pid=17, nrunning=1)	15	4	*	*	0 weekly-backup
@04:21	14/aug	has-terminated (pid=17, nrunning=0)					weekly-backup
@03:00	15/aug	invoke (pid=18, nrunning=1)	0	3	*	*	* daily-backup
@03:02	15/aug	has-terminated (pid=18, nrunning=0)					daily-backup
@03:00	16/aug	invoke (pid=19, nrunning=1)	0	3	*	*	* daily-backup
@03:02	16/aug	has-terminated (pid=19, nrunning=0)					daily-backup
@03:00	17/aug	invoke (pid=20, nrunning=1)	0	3	*	*	* daily-backup
@03:02	17/aug	has-terminated (pid=20, nrunning=0)					daily-backup
@03:00	18/aug	invoke (pid=21, nrunning=1)	0	3	*	*	* daily-backup
@03:02	18/aug	has-terminated (pid=21, nrunning=0)					daily-backup
@03:00	19/aug	invoke (pid=22, nrunning=1)	0	3	*	*	* daily-backup
@03:02	19/aug	has-terminated (pid=22, nrunning=0)					daily-backup
@03:00	20/aug	invoke (pid=23, nrunning=1)	0	3	*	*	* daily-backup
@03:02	20/aug	has-terminated (pid=23, nrunning=0)					daily-backup
@03:00	21/aug	invoke (pid=24, nrunning=1)	0	3	*	*	* daily-backup
@03:02	21/aug	has-terminated (pid=24, nrunning=0)					daily-backup
@04:15	21/aug	invoke (pid=25, nrunning=1)	15	4	*	*	0 weekly-backup
@04:21	21/aug	has-terminated (pid=25, nrunning=0)					weekly-backup
@03:00	22/aug	invoke (pid=26, nrunning=1)	0	3	*	*	* daily-backup
@03:02	22/aug	has-terminated (pid=26, nrunning=0)					daily-backup
@10:00	22/aug	invoke (pid=27, nrunning=1)	0	10	22	7	1 deep-thought
@20:00	22/aug	has-terminated (pid=27, nrunning=0)					deep-thought
@03:00	23/aug						

```

@03:02 23/aug      invoke (pid=28, nrunning=1)      0 3 * * *      daily-backup
@03:00 24/aug      has-terminated (pid=28, nrunning=0)      daily-backup
@03:00 24/aug      invoke (pid=29, nrunning=1)      0 3 * * *      daily-backup
@03:02 24/aug      has-terminated (pid=29, nrunning=0)      daily-backup
@03:00 25/aug      invoke (pid=30, nrunning=1)      0 3 * * *      daily-backup
@03:02 25/aug      has-terminated (pid=30, nrunning=0)      daily-backup
@03:00 26/aug      invoke (pid=31, nrunning=1)      0 3 * * *      daily-backup
@03:02 26/aug      has-terminated (pid=31, nrunning=0)      daily-backup
@03:00 27/aug      invoke (pid=32, nrunning=1)      0 3 * * *      daily-backup
@03:02 27/aug      has-terminated (pid=32, nrunning=0)      daily-backup
@03:00 28/aug      invoke (pid=33, nrunning=1)      0 3 * * *      daily-backup
@03:02 28/aug      has-terminated (pid=33, nrunning=0)      daily-backup
@04:15 28/aug      invoke (pid=34, nrunning=1)      15 4 * * 0      weekly-backup
@04:21 28/aug      has-terminated (pid=34, nrunning=0)      weekly-backup
@03:00 29/aug      invoke (pid=35, nrunning=1)      0 3 * * *      daily-backup
@03:02 29/aug      has-terminated (pid=35, nrunning=0)      daily-backup
@03:00 30/aug      invoke (pid=36, nrunning=1)      0 3 * * *      daily-backup
@03:02 30/aug      has-terminated (pid=36, nrunning=0)      daily-backup
@03:00 31/aug      invoke (pid=37, nrunning=1)      0 3 * * *      daily-backup
@03:02 31/aug      has-terminated (pid=37, nrunning=0)      daily-backup

command invocations:
    weekly-backup      4
    daily-backup      31
    send-monthly-newsletter      1
    submit-project      0
    deep-thought      1

daily-backup      37      1

```

