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A Cron Expressions

Cron expressions are used to configure instances of CronTrigger, a subclass of org.quartz.Trigger. A cron expression is a string consisting of six or seven subexpressions (fields) that describe individual details of the schedule.

These fields, separated by white space, can contain any of the allowed values with various combinations of the allowed characters for that field. Table A-1 shows the fields in the expected order.

Table A-1 Cron Expressions Allowed Fields and Values

Name	Required	Allowed Values	Allowed Special Characters
Seconds	Y	0-59	, - * /
Minutes	Y	0-59	, - * /
Hours	Y	0-23	, - * /
Day of month	Y	1-31	, - * ? / L W C
Month	Y	0-11 or JAN-DEC	, - * /
Day of week	Y	1-7 or SUN-SAT	, - * ? / L C #
Year	N	empty or 1970-2099	, - * /

Example A-1 Cron Expressions

Cron expressions can be as simple as `* * * * ? *` or as complex as `0 0/5 14,18,3-39,52 ? JAN,MAR,SEP MON-FRI 2002-2010`.

Here are some more examples:

Expression	Means
0 0 12 * * ?	Fire at 12:00 PM (noon) every day
0 15 10 ? * *	Fire at 10:15 AM every day
0 15 10 * * ?	Fire at 10:15 AM every day
0 15 10 * * ? *	Fire at 10:15 AM every day

Expression	Means
0 15 10 * * ? 2005	Fire at 10:15 AM every day during the year 2005
0 * 14 * * ?	Fire every minute starting at 2:00 PM and ending at 2:59 PM, every day
0 0/5 14 * * ?	Fire every 5 minutes starting at 2:00 PM and ending at 2:55 PM, every day
0 0/5 14,18 * * ?	Fire every 5 minutes starting at 2:00 PM and ending at 2:55 PM, AND fire every 5 minutes starting at 6:00 PM and ending at 6:55 PM, every day
0 0-5 14 * * ?	Fire every minute starting at 2:00 PM and ending at 2:05 PM, every day
0 10,44 14 ? 3 WED	Fire at 2:10 PM and at 2:44 PM every Wednesday in the month of March
0 15 10 ? * MON-FRI	Fire at 10:15 AM every Monday, Tuesday, Wednesday, Thursday and Friday
0 15 10 15 * ?	Fire at 10:15 AM on the 15th day of every month
0 15 10 L * ?	Fire at 10:15 AM on the last day of every month
0 15 10 ? * 6L	Fire at 10:15 AM on the last Friday of every month
0 15 10 ? * 6L	Fire at 10:15 AM on the last Friday of every month
0 15 10 ? * 6L 2002-2005	Fire at 10:15 AM on every last friday of every month during the years 2002, 2003, 2004, and 2005
0 15 10 ? * 6#3	Fire at 10:15 AM on the third Friday of every month
0 0 12 1/5 * ?	Fire at 12 PM (noon) every 5 days every month, starting on the first day of the month
0 11 11 11 11 ?	Fire every November 11 at 11:11 AM

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