

Generated Variables

ecFlow generates time and date variables in various formats from the clock. There is a separate clock for every suite. Scripts can make use of these generated variables. The variables are available at the suite level and may be *overridden* by an **edit** keyword at the suite, family, or task level. In ecflow_ui generated variables are bracketed, e.g. (ECF_TRYNO = 0).

These variables are *generated* by ecFlow from the information in the definition file and are available for use in ecFlow files. Normally there is no need to *override* the value by using **edit** statement in the definition file. Table 4 5 shows a list of generated variables.

Table 4 5 Generated variables

Defined for	Variable name	Explanation	Example
server	ECF_TRIES	The default number of tries for each task	2
	ECF_PORT	The port number	3141
	ECF_NODE	The hostname of the machine running ECF	host_1
	ECF_HOME	Home for all the ecFlow files	\$CWD
	ECF_JOB_CMD	Command to be executed to send a job	%ECF_JOB% 1> %ECF_JOBOUT% 2>&1
	ECF_LISTS	Name of the ecFlow white-list file	ecf.lists
	ECF_PASS	Default password string to replace the real password, when communicating with the server.	DJP
	ECF_LOG	Name of the ecFlow history, or log file	ecf.log
	ECF_CHECK	Name of the checkpoint file	ecf.check
	ECF_CHECK_OLD	Name of the backup of the checkpoint file	ecf.check.b
Suite	SUITE	The name of the suite	Backarc
	DATE	Date of the suite in format DD.MM.YYYY	21.02.2012
	DAY	Full name of the weekday	Sunday
	DD	Day of the month, with two digits	07
	DOW	Day Of the Week	0
	DOY	Day Of the Year	52
	MM	The month of the year, with two digits	02
	MONTH	Full name of the month	February
	YYYY	A year with four digits	2012
	ECF_DATE	Single date in format YYYYMMDD	20120221
	ECF_TIME	Time of the suites clock, HH:MM	20:32
	ECF_CLOCK	Composite weekday, month, Day Of the Week, Day Of Year	sunday:february:0:52
Family	FAMILY	The name of the family, (avoid using)	get/ocean
	FAMILY1	The last part of the family, (avoid using)	Ocean
Task	TASK	The name of the task	Getobs
	ECF_RID	The Request ID of the job (only for running jobs)	PID
	ECF_TRYNO	The current try number for the task. After begin it is 1. The number is advanced if the job is re-run. Used for in output and job-file numbering. Since this variable must be numeric and is used in the file name generation, it should not be defined by the user.	1
	ECF_NAME	Full name of the task	/backarc/get/getobs/getobs
	ECF_PASS	Password for the task to enable login to ECF	xyZ12Abx
	ECF_SCRIPT	The full pathname for the script(if ECFFILES was not used). The variable is composed as ECF_HOME/ECF_NAME.ecf,	/home/ma/map/ECF/back/ get/getobs/ getobs.ecf
	ECF_JOB	Name of the job file created by ECF. The variable is composed of ECF_HOME/ECF_NAME.jobECF_TRYNO.	/some/path/ back/get/ getobs/ getobs.job1

	ECF_JOBOUT	<p>The filename of the job output. ecFlow makes the directory from ECF_HOME down to the last level.</p> <p>The variable is composed of ECF_HOME/ECF_NAME.ECF_TRYNO.</p>	/some/path/ back/get/ getobs/ getobs.1
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Note for a suite: There are many variables derived from the **clock** of the suite.

Note for a family: For the variable **FAMILY** the value is generated from each family name by adding a slash, '/', in between.

Note for a task: The password exists only at submission time. During job execution, only the encrypted password is available in ECF. If a task does not have a variable **ECF_PASS**, ecFlow generates one. This is the only variable that is **not** searched in the normal way.