

IMPORTANT:

Any change which are done here also must be done in:

<https://github.com/dmwm/WMCore/blob/master/src/python/WMCore/WMExceptions.py>

- Range(1 - 512)
 - ◆ standard ones in Unix and indicate a CMSSW abort that the cmsRun did not catch as exception
- Range(7000 - 9000)
 - ◆ cmsRun (CMSSW) exit codes. These codes may depend on specific CMSSW version https://github.com/cms-sw/cms-sw/blob/CMSSW_11_0_0/FWCore/Utilities/interface/EDMException.I
- Range(10000 - 19999)
 - ◆ Failures related to the environment setup
- Range(50000 - 59999)
 - ◆ Failures related executable file
- Range(60000 - 69999)
 - ◆ Failures related staging-OUT
- Range(70000 - 79999)
 - ◆ Failures related only for WMAgent. (which does not fit into ranges before)
- Range(80000 - 89999)
 - ◆ Failures related only for CRAB3. (which does not fit into ranges before)
- Range(90000 - 99999)
 - ◆ Other problems which does not fit to any range before.

Error codes currently sent from CMS jobs to the dashboard

 indicates site error

- **Error exit code of the cmsRun application itself - range 0-10000**
- **Exit codes in 1-255 are standard ones in Unix and indicate a CMSSW abort that the cmsRun did not catch as exception**
 - ◆ 1 - 255 those exit codes are usually returned by `bash` when it is interrupted by a fatal signal. The exit code is set to `128+signal number` as per https://www.gnu.org/software/bash/manual/html_node/Exit-Status.html. The list of standard linux signal can be read from `man -s 7 signal`
 - ◆ For convenience we have collected a list of most common such exit codes: `StandardExitCodes`
- **cmsRun (CMSSW) exit codes. range 7000-9000 * *These codes may depend on specific CMSSW version, the list is maintained in here and you should look at tags there to find out what is appropriate for a given CMSSW release.** The situation as of 11_0_X is below
 - ◆ // The first three are specific categories of CMS Exceptions.
 - ◆ 7000 - Exception from command line processing
 - ◆ 7001 - Configuration File Not Found
 - ◆ 7002 - Configuration File Read Error
 - ◆ 8001 - Other CMS Exception
 - ◆ 8002 - `std::exception` (other than `bad_alloc`)
 - ◆ 8003 - Unknown Exception
 - ◆ 8004 - `std::bad_alloc` (memory exhaustion)
 - ◆ 8005 - Bad Exception Type (e.g throwing a string)
 - ◆ // The rest are specific categories of CMS Exceptions.
 - ◆ 8006 - `ProductNotFound`
 - ◆ 8007 - `DictionaryNotFound`

- ◆ 8008 - InsertFailure
- ◆ 8009 - Configuration
- ◆ 8010 - LogicError
- ◆ 8011 - UnimplementedFeature
- ◆ 8012 - InvalidReference
- ◆ 8013 - NullPointerError
- ◆ 8014 - NoProductSpecified
- ◆ 8015 - EventTimeout
- ◆ 8016 - EventCorruption
- ◆ 8017 - ScheduleExecutionFailure
- ◆ 8018 - EventProcessorFailure
- ◆ 8019 - FileInPathError
- ◆ ⚠ 8020 - FileOpenError (Likely a site error) (see [HERE](#).)
- ◆ ⚠ 8021 - FileReadError (May be a site error)
 - ◇ The following link can help, please check:
<https://twiki.cern.ch/twiki/bin/view/CMSPublic/WorkBookWhichRelease#DifferentReleases>
- ◆ 8022 - FatalRootError
- ◆ 8023 - MismatchedInputFiles
- ◆ 8024 - ProductDoesNotSupportViews
- ◆ 8025 - ProductDoesNotSupportPtr
- ◆ 8026 - NotFound (something other than a product or dictionary not found)
- ◆ 8027 - FormatIncompatibility
- ◆ ⚠ 8028 - FileOpenError with fallback
- ◆ 8029 - NoSecondaryFiles, in practice list of pileup files (for MixingModule) was empty
- ◆ 8030 - Exceeded maximum allowed VSize (ExceededResourceVSize).
- ◆ 8031 - Exceeded maximum allowed RSS (ExceededResourceRSS).
- ◆ 8032 - Exceeded maximum allowed time (ExceededResourceTime).
- ◆ ⚠ 8033 - Could not write output file (FileWriteError) (usually local disk problem)
- ◆ 8034 - FileNameInconsistentWithGUID
- ◆ 8501 - EventGenerationFailure
- ◆ 9000 - cmsRun caught (SIGINT and SIGUSR2) signal.
- ⚠ **Failures related to the environment setup - range 10000-19999**
 - ◆ 10001 - Connectivity problems
 - ◆ 10002 - CPU load is too high
 - ◆ 10003 - CMS software initialisation script cmsset_default.sh failed
 - ◆ 10004 - CMS_PATH not defined
 - ◆ 10005 - CMS_PATH directory does not exist
 - ◆ 10006 - scramv1 command not found
 - ◆ 10007 - Some CMSSW files are corrupted/non readable
 - ◆ 10008 - Scratch dir was not found
 - ◆ 10009 - Less than 5 GB/core of free space in scratch dir
 - ◆ 10010 - Could not find X509 certificate directory
 - ◆ 10011 - Could not find X509 proxy certificate
 - ◆ 10012 - Unable to locate the glidein configuration file
 - ◆ 10013 - No sitename detected! Invalid SITECONF file
 - ◆ 10014 - No PhEDEx node name found for local or fallback stageout
 - ◆ 10015 - No LOCAL_STAGEOUT section in site-local-config.xml
 - ◆ 10016 - No frontier-connect section in site-local-config.xml
 - ◆ 10017 - No callib-data section in site-local-config.xml
 - ◆ 10018 - site-local-config.xml was not found
 - ◆ 10019 - TrivialFileCatalog string missing
 - ◆ 10020 - event_data section is missing
 - ◆ 10021 - no proxy string in site-local-config.xml
 - ◆ 10022 - Squid test was failed

- ◆ 10023 - Clock skew is bigger than 60 sec
- ◆ 10031 - Directory VO_CMS_SW_DIR not found
- ◆ ⚠ 10032 - Failed to source CMS Environment setup script such as cmsset_default.sh, grid system or site equivalent script
- ◆ ⚠ 10034 - Required application version is not found at the site (see [HERE](#).)
- ◆ ⚠ 10040 - failed to generate cmsRun cfg file at runtime
- ◆ ⚠ 10042 - Unable to stage-in wrapper tarball.
- ◆ ⚠ 10043 - Unable to bootstrap WMCore libraries (most likely site python is broken).
- ◆ ⚠ 10050 - WARNING test_squid.py: One of the load balance Squid proxies
- ◆ ⚠ 10051 - WARNING less than 20 GB of free space per core in scratch dir
- ◆ ⚠ 10052 - WARNING less than 10MB free in /tmp
- ◆ ⚠ 10053 - WARNING CPU load of last minutes + pilot cores is higher than number of physical CPUs
- ◆ ⚠ 10054 - WARNING proxy shorter than 6 hours
- ◆ 11001 - Error during job bootstrap: A sandbox must be specified # (WMA)
- ◆ 11002 - Error during job bootstrap: A job index must be specified", # (WMA)
- ◆ ⚠ 11003 - Error during job bootstrap: VO_CMS_SW_DIR, OSG_APP, CVMFS or /cvmfs were not found (WMA)
- ◆ ⚠ 11004 - Error during job bootstrap: job environment does not contain the init.sh script. (WMA)
- ◆ ⚠ 11005 - Error during job bootstrap: python isn't available on the worker node (WMA)

• **Executable file related failures - range 50000-59999**

- ◆ 50110 - Executable file is not found
- ◆ 50111 - Executable file has no exe permissions
- ◆ 50113 - Executable did not get enough arguments
- ◆ 50115 - cmsRun did not produce a valid job report at runtime (often means cmsRun segfaulted) (Check also the file Report.pkl which might have some more information, e.g., malformed job report xml or something)
- ◆ 50116 - Could not determine exit code of cmsRun executable at runtime
- ◆ 50513 - Failure to run SCRAM setup scripts
- ◆ 50660 - Application terminated by wrapper because using too much RAM (RSS)
- ◆ 50661 - Application terminated by wrapper because using too much Virtual Memory (VSIZE)
- ◆ 50662 - Application terminated by wrapper because using too much disk
- ◆ 50663 - Application terminated by wrapper because using too much CPU time
- ◆ 50664 - Application terminated by wrapper because using too much Wall Clock time
- ◆ 50665 - Application terminated by wrapper because it stay idle too long
- ◆ 50669 - Application terminated by wrapper for not defined reason

• **Staging-OUT related troubles- range 60000-69999**

- ◆ 60302 - Output file(s) not found (see [HERE](#).)
- ◆ 60307 - Failed to copy an output file to the SE (sometimes caused by timeout issue). Or by the issues mentioned [HERE](#).
- ◆ ⚠ 60311 - Local Stage Out Failure using site specific plugin
- ◆ 60312 - Failed to get file TURL via lcg-lr command
- ◆ ⚠ 60315 - ProdAgent StageOut initialisation error (Due to TFC, SITECONF etc)
- ◆ 60316 - Failed to create a directory on the SE
- ◆ 60317 - Forced timeout for stuck stage out
- ◆ 60318 - Internal error in Crab cmscp.py stageout script
- ◆ 60319 - Failure to do AlcaHarvest stageout (WMAgent)
- ◆ 60320 - Failure to communicate with ASO server
- ◆ ⚠ 60321 - Site related issue: no space, SE down, refused connection.
- ◆ 60322 - User is not authorized to write to destination site.
- ◆ 60323 - User quota exceeded.

- ◆ 60324 - Other stageout exception.
- ◆ 60401 - Failure to assemble LFN in direct-to-merge by size (WMAgent)
- ◆ 60402 - Failure to assemble LFN in direct-to-merge by event (WMAgent)
- ◆ 60403 - Timeout during attempted file transfer - status unknown (WMAgent)
- ◆ 60404 - Timeout during staging of log archives - status unknown (WMAgent)
- ◆ 60405 - General failure to stage out log archives (WMAgent)
- ◆ 60407 - Timeout in staging in log files during log collection (WMAgent)
- ◆ 60408 - Failure to stage out of log files during log collection (WMAgent)
- ◆ 60409 - Timeout in stage out of log files during log collection (WMAgent)
- ◆ 60450 - No output files present in the report
- ◆ 60451 - Output file lacked Adler32 checksum (WMAgent)

• **Failures related only for WMAgent.- range 70000-79999**

- ◆ 71101 - No sites are available to submit the job because the location of its input(s) do not pass the site whitelist/blacklist restrictions (WMAgent) T was 61101
- ◆ 71102 - The job can only run at a site that is currently in Aborted state (WMAgent)
- ◆ 71103 - The JobSubmitter component could not load the job pickle (WMAgent)
- ◆ 71104 - The job can run only at a site that is currently in Draining state (WMAgent)
- ◆ 71300 - The job was killed by the WMAgent, reason is unknown (WMAgent)
- ◆ 71301 - The job was killed by the WMAgent because the site it was running at was set to Aborted (WMAgent)
- ◆ 71302 - The job was killed by the WMAgent because the site it was running at was set to Draining (WMAgent)
- ◆ 71303 - The job was killed by the WMAgent because the site it was running at was set to Down (WMAgent)
- ◆ 71304 - The job was killed by the WMAgent for using too much wallclock time (WMAgent) Job status was Running.
- ◆ 71305 - The job was killed by the WMAgent for using too much wallclock time (WMAgent) Job status was Pending.
- ◆ 71306 - The job was killed by the WMAgent for using too much wallclock time (WMAgent) Job status was Error.
- ◆ 71307 - The job was killed by the WMAgent for using too much wallclock time (WMAgent) Job status was Unkown.
- ◆ 70318 - Failure in DQM upload.
- ◆ 70452 - No run/lumi information in file (WMAgent)

• **Failures related only for CRAB3- range 80000-89999**

- ◆ 80000 - Internal error in CRAB job wrapper
- ◆ 80001 - No exit code set by job wrapper.
- ◆ 80453 - Unable to determine pset hash from output file (CRAB3).

• **Other problems which does not fit to any range before.- range 90000-99999**

- ◆ 90000 - Error in CRAB3 post-processing step (currently includes basically errors in stage out and file metadata upload).
- ◆ 99109 - Uncaught exception in WMAgent step executor

This topic: CMSPublic > JobExitCodes

Topic revision: r95 - 2022-05-13 - BockjooKim



Copyright &© 2008-2022 by the contributing authors. All material on this collaboration platform is the property of the contributing authors.

or Ideas, requests, problems regarding TWiki? use Discourse or Send feedback