

diet-submit-lot

lot submission utility

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Abstract

diet-submit-lot can submit scripts or lots (sets of scripts) on a machine. The diet agent selects the best machine on which the lot will be submitted. This command takes in argument **the script or the file containing set of scripts** on which we want to submit the lot.

1 Synopsis

diet-submit-lot [**-config** *diet_config_file*] *script or lot*

2 Description

diet-submit-lot uses the configuration file *diet_config_file* defined with the **-config** option to be able to get information about the *machine* on which we launch the command. If the **-config** option is not set, *diet-submit-lot* will use `$HOME/.diet/client.cfg`. If this file does not exist, the path to the client configuration file could also be defined with the `DIET_CLIENT_CONFIG` environment variable.

Once *diet-submit-lot* has found the configuration file, the *script* or the *lot* can then be submitted on the *best selected machine*. If neither **-N** nor **-P** are given, then the size of the packets are automatically determined: each packet will have no more than $(\text{INITIAL_PACKET_SIZE} - \text{nbJobs} * f)$, where `INITIAL_PACKET_SIZE` is set by default to (200), `nbJobs` is the number of jobs currently running on the batch system, and `f` is a proportional factor initially set to 1/2.

diet-submit-lot offers two ways of submitting parameter sweep scripts:

- The first method consists in specifying directly in your scripts that you wish this script to have several parameters, and that these parameters will be generated on the server side, by using the two following parameters:

- **# % dietArguments = GenArg** specifies that the parameters will be generated on the server side by a method implemented by the server:
(void my_generate_args(std::vector<std::string>& vec_args)).
 - **# % dietNbJobsParam = xx** where **xx** is the number of parameters the server has to generate.
- The second method consists in giving to *diet-submit-lot* the parameter **–param**, *i.e.*, a file that contains on each line a set of parameters that is to be given to the script. Note that this method only works with a generic Diet lot script, and that this script has to contain only one micro job script. If your lot script contains more than one micro job script, then they won't be submitted. Also note that if your micro job script already contains a **# % dietArguments** line, then the parameters given in the **–param** file will be appended to the **# % dietArguments** line.
- [**–config** *diet_config_file*] Configuration file used by *diet-submit-lot* to be able to submit a script or a lot on *best selected machine*. This option can be omitted. In that case we fall back to the default configuration file `$HOME/.diet/client.cfg`. The configuration file path could also be defined through an environment variable : `DIET_CLIENT_CONFIG`.
- h|–help** Some help about *diet-submit-lot*.
- N** The size of the packets.
- P** The maximum number of processors.
- param** File containing the list of parameters.
- script or lot** The script or lot to submit.

3 Files and variables

`$HOME/.diet/client.cfg` Default configuration file for *diet-submit-lot*.

`DIET_CLIENT_CONFIG` Variable that could store the path the *diet-submit-lot* configuration file

`OMNIORB_CONFIG` Variable defining the path to the omniORB configuration file

4 Example

How to submit a job or set of jobs?

diet-submit-lot –config path_to_the_configuration_file jobFile

How to submit a multi parametric job?

diet-submit-lot –config path_to_the_configuration_file –param param-File jobFile

5 See also

diet-build-lot(1), *diet-cancel-lot(1)*, *diet-getOutPut-lot(1)*, *diet-list-lot(1)*, *diet-status-lot(1)*, *diet-agent*, *omniNames*.

6 Prerequisites

DIET *diet-submit-lot* requires a DIET installation with version ≥ 2.3 .

7 Version

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8 License et Copyright

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