**Starexec Web Interface**

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# System

## Logout

URL: services/session/logout

Method: POST

Parameter Encoding: N/A

Description: Logs the requesting user out of the system

Returns: A jSON string containing a status object

# Spaces

## Edit Space Attributes

URL: services/edit/space/{ id}

URL Variables

{id} – The ID of the space to edit

Method: POST

Parameter Encoding: application/x-www-form-urlencoded

Parameters

name : String – The new space name

description : String – The new space description

locked : Boolean – Whether the space should be locked

sticky : Boolean – Whether the new space should have sticky leaders set

addBench : Boolean – Whether default permissions for this space should include adding benchmarks

addJob : Boolean – Whether default permissions for this space should include adding jobs

addSolver : Boolean – Whether default permissions for this space should include adding solvers

addSpace : Boolean – Whether default permissions for this space should include adding spaces

addUser : Boolean – Whether default permissions for this space should include adding users

removeBench : Boolean – Whether default permissions for this space should include removing benchmarks

removeJob : Boolean – Whether default permissions for this space should include removing jobs

removeSolver : Boolean – Whether default permissions for this space should include removing solvers

removeSpace : Boolean – Whether default permissions for this space should include removing spaces

removeUser : Boolean – Whether default permissions for this space should include removing users

Description: Edits an existing space by providing a new values for all space attributes

Returns: A jSON string containing a status object.

## Edit Single Space Attribute

URL: services/edit/space/{attr}/{id}

URL Variables

{id} – The ID of the space to edit

{attr} – The attribute to edit. Can be “name” or “description”

Method: POST

Parameter Encoding: application/x-www-form-urlencoded

Parameters

val : String -- The new value to use for the given attribute

Description: Edits an existing space by providing a new value for the given attribute

Returns: A jSON string containing a status object.

# Solvers

## Get Build Standard Output

URL: services/solvers/{id}/buildoutput

URL Variables

{id} – The ID of the solver to get the build output for

Method: GET

Parameter Encoding: N/A

Description: Retrieves the standard output of the build script used when the solver was uploaded

Returns: A plaintext string containing the standard output of the build script. Returns “not available” if no build script was used for this solver, if the output could not be found, or if you do not have permission to view the build output.

# Processors

## Delete Processors

URL: services/delete/processor

Method: POST

Parameter Encoding: application/x-www-form-urlencoded

Parameters

selectedIds[] : [integer] – The list of processor IDs to delete

Description: Permanently deletes the given processors

Returns: a jSON string containing a status object.

# Benchmarks

## Linking / Copying Benchmarks to a Space

URL: services/spaces/{spaceId}/add/benchmark

URL Variables

{spaceId} – The ID of the space to put the new benchmarks in

Method: POST

Parameter Encoding: application/x-www-form-urlencoded

Parameters

selectedIds[] : [integer] – The list of benchmark IDs to use

copy : Boolean – If true, benchmarks are first copied, and then the new benchmarks are referenced in the given space. If false, benchmarks are simply referenced in the new space without being copied.

fromSpace : integer – If not null, then this is the ID of a space containing all the benchmarks in selectedIds[] that you have permission to copy benchmarks out of. If null, so such space is used, and you must be the owner of the benchmarks to have permission to use them.

Description: Given a list of benchmarks, places the benchmarks into the given space. If copy is true, the benchmarks are first copied. Otherwise, the benchmarks are just linked into the new space.

Returns: A jSON string containing a status object.

## View Benchmark Contents

URL: services/benchmarks/{id}/contents

URL Variables

{id} – The ID of the benchmark to get the contents of

Method: GET

Parameter Encoding: N/A

Description: Retrieves the file contents of a single benchmark.

Returns: A plaintext string containing the benchmark contents for the given benchmark. Returns “not available” if the benchmark could not be found or if you do not have permission to see the given benchmark

## Getting Benchmark Upload Status

URL: services/benchmarks/uploadDescription/{statusId}

URL Variables

{statusId} – The ID of the benchmark upload status object

Method: GET

Parameter Encoding: N/A

Description: Retrieves a string description of a benchmark archive upload.

Returns: A jSON string containing a status object. If the status is successful, the message contained in the status object will be the upload description.

# Jobs

## Rerun Job Pairs

URL: services/jobs/rerunallpairs/{id}

URL Variables

{id} – The ID of the job that contains the pairs to be rerun

Method: POST

Parameter Encoding: N/A

Description: Reruns every job pair in the given job.

Returns: A jSON string containing a status object.

## Rerun Job Pairs of a Status

URL: services/jobs/rerunpairs/{id}/{status}

URL Variables

{id} – The ID of the job that contains the pairs to be rerun

{status} – The integer status code of the pairs to rerun

Method: POST

Parameter Encoding: N/A

Description: Reruns all job pairs that are both in the given job and have the given status code.

Returns: A jSON string containing a status object.

## Rerun Job Pairs That Reported Incorrectly

URL: services/jobs/rerunpairs/{id}

URL Variables

{id} – The ID of the job that contains the pairs to be rerun

Method: POST

Parameter Encoding: N/A

Description: Reruns all job pairs that have already completed, but have a CPU time or wallclock time of 0. Such pairs generally had some problem reporting back results after completing.

Returns: A jSON string containing a status object.

## Rerun Single Job Pair

URL: services/jobs/pairs/rerun/{pairid}

URL Variables

{pairid} – The ID of the job pair that needs to be rerun

Method: POST

Parameter Encoding: N/A

Description: Reruns the given job pair

Returns: A jSON string containing a status object.

## Reprocess Job Pairs

URL: services/postprocess/job/{jobId}/{procId}/{stageNumber}

URL Variables

{jobId} – The ID of the job to reprocess pairs in

{procId} – The ID of the post processor to use

{stageNumber} – Which stage of the job to reprocess. If the job did not use solver pipelines, this should always be 1.

Method: POST

Parameter Encoding: N/A

Description: Runs a new post processor on all pairs from the job. The job must be finished to run a new post processor.

Returns: A jSON string containing a status object.

## View Qstat Output

URL: services/cluster/qstat

Method: GET

Parameter Encoding: N/A

Description: Executes qstat –f on the Starexec grid engine and gets the standard output. Used to determine the cluster status.

Returns: A plaintext string containing the results of qstat.

## View Job Pair Output

URL: services/jobs/pairs/{id}/stdout/{stageNumber}

URL Variables

{id} – The ID of the job pair to get the output of

{stageNumber} – Which stage number of the pair to get the results of. If the pair was not created with a solver pipeline, then this should be 1. If it was created with a solver pipeline, then it is the relevant stage number to retrieve.

Method: GET

Parameter Encoding: N/A

Description: Retrieves the job pair output of a single stage of the given job pair

Returns: A plaintext string containing the output of the given pair. Returns “not available” if the output could not be found or if you do not have permission to view the given pair.

## View Job Pair Log

URL: services/jobs/pairs/{id}/log

URL Variables

{id} – The ID of the job pair to get the log of

Method: GET

Parameter Encoding: N/A

Description: Retrieves the job pair log of the single job pair given.

Returns: A plaintext string containing the job pair log of the given pair. Returns “not available” if the log could not be found or if you do not have permission to view the log of the given pair.

# Websites

## Add a New Website

URL: services/website/add/{type}/{id}

URL Variables

{type} – The type of primitive to add a website to. Can be “user”, “space”, or “solver”

{id} – The ID of the primitive to add a website too

Method: POST

Parameter Encoding: application/x-www-form-urlencoded

Parameters

name : String – The name of the website

url : String – The URL to the website

Description: Associates the given website with the specified primitive

Returns: A jSON string containing a status object

## Delete a Website

URL: services/websites/delete/{websiteId}

URL Variables

{websiteId} – The ID of the website

Method: POST

Parameter Encoding: N/A

Description: Deletes the website with the given ID

Returns: A jSON string containing a status object

# Users

## Alter Profile Data

URL: services/edit/user/{attr}/{userId}/{val}

URL Variables

{attr} – The type of attribute to update. Can be “firstname” “lastname” “institution”, “pagesize”

{userId} – Your user ID

{val} – The new value to set

Method: POST

Parameter Encoding: N/A

Description: Updates a field of profile information (like first name, last name, and so on). Note that the “pagesize” attribute refers to the default number of rows that will be displayed in the data tables displayed on Starexec.

Returns: A jSON string containing a status object.

## Set Default Settings Profile

URL: services/set/defaultSettings/{id}

URL Variables

{id} – The ID of the settings profile to use

Method: POST

Parameter Encoding: N/A

Description: Sets the given settings profile as your default profile, meaning the one that is loaded automatically upon visiting pages like the job creation page.

Returns: A jSON string containing a status object.

## Edit Default Settings Profile

URL: services/edit/defaultSettings/{attr}/{id}

URL Variables

{id} – The ID of the settings profile to edit

{attr} – The attribute to edit. Can be “PostProcess”, “BenchProcess”, “CpuTimeout”, “ClockTimeout”, “DependenciesEnabled”, “defaultbenchmark”, “defaultsolver”, “MaxMem”, “PreProcess”

Method: POST

Parameter Encoding: application/x-www-form-urlencoded

Parameters

val : <String or Int, depending on choice of {attr}> -- The new value to use for the given attribute

Description: Edits an existing settings profile by using the given new value for the given attribute

Returns: A jSON string containing a status object.

## Delete Default Settings Profile

URL: services/delete/defaultSettings/{id}

URL Variables

{id} – The ID of the settings profile to delete

Method: POST

Parameter Encoding: N/A

Description: Deletes the settings profile with the given ID

Returns: A jSON string containing a status object.