

try

Command Reference

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1. Description

try catch finally.

The `try` command models the familiar try/catch/finally control structure. The command lets you run an ad hoc or defined command and optionally run a different one if the first one fails and yet another one after the first one has finished.

The `try` command will attempt to execute a command. Commands can be one of these things:

- executable: Run the specified executable
- script: Evaluate the script using the specified executable
- scriptfile: Run the script file using the specified executable
- command: Run the defined command in the specified module

The "catch" and "finally" actions are similarly specified but are prefixed with that corresponding name (eg, `catchexecutable`, `catchscript`, `finallyexecutable`, `finallyscript`).

If an error occurs during the execution of the command and no catch command is specified then `try` will exit with an error. If a catch command is specified, the `try` command will exit normally (assuming the catch command or finally one does not error too).

static: This command can be run outside of an object context.

2. Usage

```
ctl -m logicutil -c try [-argline <>] [-catchargline <>]
[-catchcommand <>] [-catchexecutable <>] [-catchscript <>]
[-catchscriptfile <>] [-command <>] [-executable <>]
[-finallyargline <>] [-finallycommand <>] [-finallyexecutable
<>] [-finallyscript <>] [-finallyscriptfile <>] [-output <>]
[-script <>] [-scriptfile <>]
```

2.1. Options

Options are grouped into roughly three parts: the action to try, the catch action and the finally action.

```
try [try options] [catch options] [finally options]
```

Ad hoc commands are supported via the `executable` and `script` and `scriptfile` options. You can run a defined command via the `command` options. Defined commands are specified using `type#command` (eg, `netutil#listening`).

try

If a script or scriptfile is specified but no executable, the command will default executable to `sh` on unix or `cmd.exe` on windows.

Option	Description	Type	Default
<code>argline</code>	<i>The tryargline to try.</i>	string	
<code>catchargline</code>	<i>The catch argline.</i>	string	
<code>catchcommand</code>	<i>The catch CTL command.</i>	string	
<code>catchexecutable</code>	<i>The catch executable.</i>	string	
<code>catchscript</code>	<i>The catch script.</i>	string	
<code>catchscriptfile</code>	<i>The catch scriptfile.</i>	string	
<code>command</code>	<i>The CTL command to try.</i>	string	
<code>executable</code>	<i>The executable to try.</i>	string	
<code>finallyargline</code>	<i>The finally argline.</i>	string	
<code>finallycommand</code>	<i>The finallycommand CTL command.</i>	string	
<code>finallyexecutable</code>	<i>The finally executable.</i>	string	
<code>finallyscript</code>	<i>The finally script.</i>	string	
<code>finallyscriptfile</code>	<i>The finally scriptfile.</i>	string	
<code>output</code>	<i>Direct try output to file.</i>	string	
<code>script</code>	<i>The script to try.</i>	string	
<code>scriptfile</code>	<i>The scriptfile to try.</i>	string	

3. Examples

Execute an inline shell script. Echos the string "hello" to the console:

```
ctl -p demo -m logicutil -c try -- -executable /bin/sh -script "echo hello"
```

output: hello

Execute a script file. Here's a script called `/tmp/hello.sh` that echos the argument string specified via the `"-argline"` option:

```
#!/bin/sh
echo "$@"
```

Use the "scriptfile" option. The "argline" argument will be passed as the arguments to the script.

```
ctl -p demo -m logicutil -c try -- -executable /bin/sh -scriptfile
/tmp/hello.sh -argline hello
```

output: hello

Catch errors with a *catch* action. A catch action is specified similar to the one being tried. Here's an example that intentionally fails by causing the script to exit non-zero.

```
ctl -p demo -m logicutil -c try -- \
  -executable /bin/sh -script "exit 1" -catchexecutable /bin/sh
-catchscript "echo caught the error"
```

output: caught the error

Errors that are caught prevent the `try` command from exiting with an error. The command will exit with a 0 exit code. (eg, `$? = 0`)

A *finally* action will run no matter if an error is occurs or not

```
ctl -p demo -m logicutil -c try -- \
  -executable /bin/sh -script "exit 1" -catchexecutable /bin/sh -script
"echo caught the error" \
  -finallyexecutable /bin/sh -finallyscript "echo caught the error"
```

output:

```
Caught exception: shell-exec returned: 1
caught the error
finally
```

Commands defined in modules can also be called. Commands are referenced using this notation: `typename#commandname`.

Here's an example that calls the available command in the [fileutil](#) module.

```
ctl -p demo -m logicutil -c try -- -command fileutil#available -argline
"-file /etc/motd"
```

output: true

Here `available` is run again but this time referring to a file that does not exist.

```
ctl -p demo -m logicutil -c try -- \
  -command fileutil#available -argline "-file /tmp/bogus
-failonerror" -catchscript "echo file was bogus"
```

output:

```
Caught exception: The following error occurred while executing this line:
/Users/alexh/ctier/ctl/modules/fileutil/commands/available.xml:26: file not
```

try

```
found: /tmp/bogus  
file was bogus
```