

# REWRITING JOB SCRIPT FROM BASH TO PYTHON

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# SOTTOMISSIONE

- Abbiamo sottomesso il lavoro python su un sito (victoria-lcg2)
- è stato un successo, il job si è concluso positivamente
- il rest ha funzionato
- il job ha riconosciuto in automatico il sito in cui si trovava





# SOTTOMISSIONE

## Riconoscimento:

29/06/2011 10:56.23 - 229 - Parser.\_parseExportVars - DEBUG - init EXPORT\_VAR section  
29/06/2011 10:56.23 - 247 - ExportVarSection.\_\_init\_\_ - DEBUG - ExportVarSection init  
29/06/2011 10:56.23 - 237 - Parser.\_parseSite - DEBUG - init SITE section  
29/06/2011 10:56.23 - 238 - Parser.\_parseSite - DEBUG - [('sitenametouse', '"VICTORIA-LCG2"'), ('uselocalname', 'true')]  
29/06/2011 10:56.23 - 410 - SiteSection.\_\_init\_\_ - DEBUG - SiteSection  
29/06/2011 10:56.23 - 429 - SiteSection.getSiteName - WARNING - Attention, this site hasn't the OSG\_SITE\_NAME maybe it is a EGEE site  
29/06/2011 10:56.23 - 431 - SiteSection.getSiteName - INFO - This site is a EGEE site its name is: VICTORIA-LCG2

## Rest communication

29/06/2011 10:56.25 - 614 - RestObj.getBody - DEBUG - il body e': 'status=running status\_reason=RUNNGEN01 the script is started%0D Rest is OK%0D logger is OK%0D sounds good%0D%0D'  
29/06/2011 10:56.25 - 616 - RestObj.getBody - DEBUG - body length: 111  
on/x-www-form-urlencoded']  
ipt - created By Matteo Favaro\r\nAccept: \*/\*\r\nContent-Length: 111\r\nContent-Type: application/x-www-form-urlencoded\r\n\r\nsend: 'status=running\nstatus\_reason=RUNNGEN01 the script is started%0D Rest is OK%0D logger is OK%0D sounds good%0D%0D'  
reply: 'HTTP/1.1 200 OK\r\n'  
header: Date: Wed, 29 Jun 2011 17:56:26 GMT  
header: Server: Apache/2.2.3 (Scientific Linux)  
header: X-Powered-By: PHP/5.3.6  
header: Content-Length: 151  
header: Connection: close  
header: Content-Type: text/html; charset=utf-8  
tific Linux)'), ('connection', 'close'), ('date', 'Wed, 29 Jun 2011 17:56:26 GMT'), ('content-type', 'text/html; charset=utf-8')]  
29/06/2011 10:56.26 - 578 - RestObj.doPostRequest - DEBUG - REPLY STATUS: 200  
29/06/2011 10:56.26 - 579 - RestObj.doPostRequest - DEBUG - REPLY REASON: OK  
29/06/2011 10:56.26 - 581 - RestObj.doPostRequest - DEBUG - Rest is STILL available





# SOTTOMISSIONE

## Site loading

```
29/06/2011 10:56.26 - 443 - SiteSection.getSiteName - DEBUG - sitename = VICTORIA-LCG2
29/06/2011 10:56.26 - 667 - LoadModule.loadSiteModule - DEBUG - test before call:VICTORIA-LCG2
29/06/2011 10:56.26 - 443 - SiteSection.getSiteName - DEBUG - sitename = VICTORIA-LCG2
29/06/2011 10:56.26 - 668 - LoadModule.loadSiteModule - DEBUG - test before call:victoria-lcg2
29/06/2011 10:56.26 - 669 - LoadModule.loadSiteModule - DEBUG - test before call:./support24/site_modules
29/06/2011 10:56.26 - 443 - SiteSection.getSiteName - DEBUG - sitename = VICTORIA-LCG2
29/06/2011 10:56.26 - 679 - LoadModule.loadModule - DEBUG - ./support24/site_modules
29/06/2011 10:56.26 - 687 - LoadModule.loadModule - DEBUG - ('victoria-lcg2', '.py')
29/06/2011 10:56.26 - 691 - LoadModule.loadModule - DEBUG - file trovato: victoria-lcg2.py
29/06/2011 10:56.26 - 693 - LoadModule.loadModule - DEBUG - support24/site_modules/victoria-lcg2.py
29/06/2011 10:56.26 - 696 - LoadModule.loadModule - DEBUG - module name: victoria-lcg2
29/06/2011 10:56.26 - 697 - LoadModule.loadModule - DEBUG - extention of file founded: .py
29/06/2011 10:56.26 - 698 - LoadModule.loadModule - DEBUG - expeted ClassName: Victoria_lcg2
29/06/2011 10:56.26 - 701 - LoadModule.loadModule - DEBUG - ho trovato il py
29/06/2011 10:56.26 - 703 - LoadModule.loadModule - DEBUG - caricato
29/06/2011 10:56.26 - 711 - LoadModule.loadModule - DEBUG - ['Site', 'Victoria_lcg2', '__builtins__', '__doc__',
'__file__', '__name__', 'os', 'time']
29/06/2011 10:56.26 - 712 - LoadModule.loadModule - DEBUG - esiste Victoria_lcg2 in victoria-lcg2? True
29/06/2011 10:56.26 - 718 - LoadModule.loadModule - DEBUG - trovata la classe tento il gettatr
29/06/2011 10:56.26 - 720 - LoadModule.loadModule - DEBUG - fatto
29/06/2011 10:56.26 - 724 - LoadModule.loadModule - DEBUG - ho trovato la classe e istanziata
29/06/2011 10:56.26 - 16 - Victoria_lcg2.__init__ - DEBUG - general site init
'getUseLocalSitename', 'logger', 'nameAcquired', 'sitename']
29/06/2011 10:56.26 - 10 - Victoria_lcg2.__init__ - DEBUG - Victoria_lcg2 site init
```





# SOTTOMISSIONE

## Job Loading

```
29/06/2011 10:56.26 - 679 - LoadModule.loadModule - DEBUG - ./support24/job
29/06/2011 10:56.26 - 687 - LoadModule.loadModule - DEBUG - ('test', '.py')
29/06/2011 10:56.26 - 691 - LoadModule.loadModule - DEBUG - file trovato: test.py
29/06/2011 10:56.26 - 693 - LoadModule.loadModule - DEBUG - support24/job/test.py
29/06/2011 10:56.26 - 696 - LoadModule.loadModule - DEBUG - module name: test
29/06/2011 10:56.26 - 697 - LoadModule.loadModule - DEBUG - extention of file founded: .py
29/06/2011 10:56.26 - 698 - LoadModule.loadModule - DEBUG - expeted ClassName: Test
29/06/2011 10:56.26 - 701 - LoadModule.loadModule - DEBUG - ho trovato il py
29/06/2011 10:56.26 - 703 - LoadModule.loadModule - DEBUG - caricato
tion', 'TestObjInitException', '__builtins__', '__doc__', '__file__', '__name__', 'os', 'socket', 'time']
29/06/2011 10:56.26 - 712 - LoadModule.loadModule - DEBUG - esiste Test in test? True
29/06/2011 10:56.26 - 718 - LoadModule.loadModule - DEBUG - trovata la classe tento il gettattr
29/06/2011 10:56.26 - 720 - LoadModule.loadModule - DEBUG - fatto
29/06/2011 10:56.26 - 724 - LoadModule.loadModule - DEBUG - ho trovato la classe e istanziata
29/06/2011 10:56.26 - 14 - Test.__init__ - DEBUG - General Job init
29/06/2011 10:56.26 - 33 - Test.__init__ - DEBUG - Test Job init
```





# IL JOB FUNZIONA

## Job WORKING!

```
29/06/2011 10:56.30 - 51 - Test.execute - INFO - ##### START Executing TEST Script #####
937018610950
ut_files
29/06/2011 10:56.30 - 61 - Test.execute - INFO - %%%%%%%%%% Exporting VARS %%%%%%%%%%
('SBDATA', 'as'), ('LFC_HOST', 'as'), ('PRODSERIES', 'as'), ('G4VER', 'as'), ('NEVENTS', 'as'), ('BKGROOT', 'as')]
29/06/2011 10:56.31 - 261 - ExportVarSection.exportVarInEnvironment - INFO - SBROOT=as
29/06/2011 10:56.31 - 261 - ExportVarSection.exportVarInEnvironment - INFO - GENERATOR=as
29/06/2011 10:56.31 - 261 - ExportVarSection.exportVarInEnvironment - INFO - PRODROOT=as
29/06/2011 10:56.31 - 261 - ExportVarSection.exportVarInEnvironment - INFO - DG=as
29/06/2011 10:56.31 - 261 - ExportVarSection.exportVarInEnvironment - INFO - SBDATA=as
29/06/2011 10:56.31 - 261 - ExportVarSection.exportVarInEnvironment - INFO - LFC_HOST=as
29/06/2011 10:56.31 - 261 - ExportVarSection.exportVarInEnvironment - INFO - PRODSERIES=as
29/06/2011 10:56.31 - 261 - ExportVarSection.exportVarInEnvironment - INFO - G4VER=as
29/06/2011 10:56.31 - 261 - ExportVarSection.exportVarInEnvironment - INFO - NEVENTS=as
29/06/2011 10:56.31 - 261 - ExportVarSection.exportVarInEnvironment - INFO - BKGROOT=as
29/06/2011 10:56.31 - 63 - Test.execute - INFO - %%%%%%%%%% END Exporting VARS %%%%%%%%%%
29/06/2011 10:56.31 - 71 - Test.execute - INFO - %%%%%%%%%% Environment %%%%%%%%%%
29/06/2011 10:56.31 - 72 - Test.execute - INFO - SUPERB=None
29/06/2011 10:56.31 - 73 - Test.execute - INFO - HOST=None
29/06/2011 10:56.31 - 74 - Test.execute - INFO - OSG=None
29/06/2011 10:56.31 - 75 - Test.execute - INFO - LCG_LOCATION=/home1x/hep/atlas/software/gliteUI_WN-3.1.43-0-SL4/lcg
29/06/2011 10:56.31 - 76 - Test.execute - INFO - LCG_GFAL_INFOSYS=top-bdii.triumf.ca:2170
29/06/2011 10:56.31 - 77 - Test.execute - INFO - X509_USER_PROXY=/home1x/lcg/subprd01/.globus/job/lcg-ce.rcf.uvic.ca/25595.1309370128/x509_up
29/06/2011 10:56.31 - 78 - Test.execute - INFO - HOSTNAME=c13b11
6')
29/06/2011 10:56.31 - 80 - Test.execute - INFO - WN local DIR = /scr/4453347.torque.cluster.uvic.ca/gangajob_mSN10941/Severus/sb_130937018610950
.
.
.
```





# TEST LCG

## file manager:

```
29/06/2011 10:56.42 - 92 - Test.execute - INFO - Getting the TARBALL
29/06/2011 10:56.42 - 767 - FileManager.getTarBall - DEBUG - gettarball call
29/06/2011 10:56.42 - 443 - SiteSection.getSiteName - DEBUG - sitename = VICTORIA-LCG2
29/06/2011 10:56.42 - 804 - LcgUtil.copyFileIN - DEBUG - use pythonlib? False
5.3_i386_rev311.tjz
29/06/2011 10:56.42 - 821 - LcgUtil.lcg_cp_in - DEBUG - use pythonlib? False
29/06/2011 10:56.42 - 826 - LcgUtil.lcg_cp_in - DEBUG - uso _nopyLcg_cp_in
5_SL-5.3_i386_rev311.tjz
/4453347.torque.cluster.uvic.ca/gangajob_mSN10941/Severus/sb_130937018610950/V0.2.5_SL-5.3_i386_rev311.tjz"
29/06/2011 10:56.51 - 947 - LcgUtil._nopyLcg_cp_in - DEBUG - retcode from command: 0
29/06/2011 10:56.51 - 948 - LcgUtil._nopyLcg_cp_in - DEBUG - lcg-cp executed
29/06/2011 10:56.51 - 949 - LcgUtil._nopyLcg_cp_in - DEBUG - CMD output:
29/06/2011 10:56.51 - 953 - LcgUtil._nopyLcg_cp_in - DEBUG - -----
29/06/2011 10:56.51 - 956 - LcgUtil._nopyLcg_cp_in - WARNING - Using grid catalog type: UNKNOWN
29/06/2011 10:56.51 - 956 - LcgUtil._nopyLcg_cp_in - WARNING - Using grid catalog : as
29/06/2011 10:56.51 - 956 - LcgUtil._nopyLcg_cp_in - WARNING - VO name: superbvo.org
29/06/2011 10:56.51 - 956 - LcgUtil._nopyLcg_cp_in - WARNING - Checksum type: None
29/06/2011 10:56.51 - 956 - LcgUtil._nopyLcg_cp_in - WARNING - Trying SURL srm://lcg-se.rcf.uvic.ca/pnfs/rcf.uvic.ca/data/superbvo/prod/
VICTORIA-LCG2/test_release/V0.2.5_SL-5.3_i386_rev311.tjz ...
29/06/2011 10:56.51 - 956 - LcgUtil._nopyLcg_cp_in - WARNING - Source SE type: SRMv2
29/06/2011 10:56.51 - 956 - LcgUtil._nopyLcg_cp_in - WARNING - Source SRM Request Token: -2137474129
29/06/2011 10:56.51 - 956 - LcgUtil._nopyLcg_cp_in - WARNING - Source URL: srm://lcg-se.rcf.uvic.ca/pnfs/rcf.uvic.ca/data/superbvo/prod/
VICTORIA-LCG2/test_release/V0.2.5_SL-5.3_i386_rev311.tjz
29/06/2011 10:56.51 - 956 - LcgUtil._nopyLcg_cp_in - WARNING - File size: 31833611
29/06/2011 10:56.51 - 956 - LcgUtil._nopyLcg_cp_in - WARNING - Source URL for copy: gsiftp://lcg-se.rcf.uvic.ca:2811//pnfs/rcf.uvic.ca/data/
superbvo/prod/VICTORIA-LCG2/test_release/V0.2.5_SL-5.3_i386_rev311.tjz
29/06/2011 10:56.51 - 956 - LcgUtil._nopyLcg_cp_in - WARNING - Destination URL: file:/scr/4453347.torque.cluster.uvic.ca/
gangajob_mSN10941/Severus/sb_130937018610950/V0.2.5_SL-5.3_i386_rev311.tjz
29/06/2011 10:56.51 - 956 - LcgUtil._nopyLcg_cp_in - WARNING - # streams: 1
0.00 KB/sec inst
29/06/2011 10:56.51 - 956 - LcgUtil._nopyLcg_cp_in - WARNING - Transfer took 2020 ms
29/06/2011 10:56.51 - 957 - LcgUtil._nopyLcg_cp_in - DEBUG - -----
```





# DIREI CHE SI SIAMO

- Per concludere:
  - questo è stato solo un test
  - mancano ancora alcune implementazioni
  - devo finire la tesi!