

Toward a stand alone distributed management system

Enrico Vianello, Matteo Manzali, Bruno Santeramo

Generalization of SuperB distributed production system as stand alone, general purpose infrastructure to accomplish small and medium VO requirements

oggi parliamo di:

- STATO DEI LAVORI: SVILUPPO
jobmonitor



meeting 6 maggio 2011

STATO DEI LAVORI

SVILUPPO

☒ create production

includere le funzionalità di apertura, chiusura e cancellazione di produzioni

☒ job monitor

☒ form di selezione filtri di ricerca su finestra modale “flottante”

filtri:

prodseries

job parameters

uid

job runnums - status - error code

last n jobs

submitted/running from more than n hours

site

☒ click sul runnum : mostra il dettaglio del job (campi, file di output, file di log)

☒ nascondi/visualizza colonne

- valutare una soluzione server-side per dataTables
 - probabili maggiori prestazioni (ma da verificare)
 - maggiori difficoltà nella personalizzazione (da valutare)

Job Monitor

Job Monitor

[Fast]

FAST JOB LIST

show filter dialog

error code description

runnum	uid	# of ev.	soft release	status	gridjid	site	time
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Job Filter

Filter Jobs by selecting:

Production series:

2010_September

Requests:

- all -

User:

- all -

Jobs:

runnum from 10000 to 1007018903

status - all - error code - all -

☐ last 50 jobs

☐ submitted from more than 24 hours

Site:

- all -

search jobs

Requests:

define job's parameter values...

Analysis:

- all -

Generator:

- all -

Geometry:

- all -

Background:

- all -

generati dinamicamente leggendo dal db



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Job Monitor - Risultato

Job Monitor

[Fast]

FAST JOB LIST

show filter dialog

error code description

hide/show columns

Show 10 entries

Search:

2089 jobs found matching the search criteria.

runnum	# of ev.	Analysis	Generator	Geometry	Background	Status	GJid	Site	wct (s)
1007016815 tomassetti	50000	HadRecoilCocktail	B0B0bar_Btag-HD_Cocktail	DG_BaBar	MixBaBarBkg_NoPair.tcl	done	gjid	INFN-CAGLIARI	19633.16
1007016816 tomassetti	50000	HadRecoilCocktail	B0B0bar_Btag-HD_Cocktail	DG_BaBar	MixBaBarBkg_NoPair.tcl	done	gjid	INFN-CAGLIARI	19454.94
1007016817 tomassetti	50000	HadRecoilCocktail	B0B0bar_Btag-HD_Cocktail	DG_BaBar	MixBaBarBkg_NoPair.tcl	done	gjid	INFN-CAGLIARI	28034.68
1007016818 tomassetti	50000	HadRecoilCocktail	B0B0bar_Btag-HD_Cocktail	DG_BaBar	MixBaBarBkg_NoPair.tcl	done	gjid	INFN-CAGLIARI	39035.08
1007016819 tomassetti	50000	HadRecoilCocktail	B0B0bar_Btag-HD_Cocktail	DG_BaBar	MixBaBarBkg_NoPair.tcl	done	gjid	INFN-CAGLIARI	20440.82
1007016820 tomassetti	50000	HadRecoilCocktail	B0B0bar_Btag-HD_Cocktail	DG_BaBar	MixBaBarBkg_NoPair.tcl	done	gjid	INFN-CAGLIARI	20374.96
1007016821 tomassetti	50000	HadRecoilCocktail	B0B0bar_Btag-HD_Cocktail	DG_BaBar	MixBaBarBkg_NoPair.tcl	done	gjid	INFN-CAGLIARI	19770.53
1007016822 tomassetti	50000	HadRecoilCocktail	B0B0bar_Btag-HD_Cocktail	DG_BaBar	MixBaBarBkg_NoPair.tcl	done	gjid	INFN-CAGLIARI	21084.25
1007016823 tomassetti	50000	HadRecoilCocktail	B0B0bar_Btag-HD_Cocktail	DG_BaBar	MixBaBarBkg_NoPair.tcl	done	gjid	INFN-CAGLIARI	19991.77
1007016824 tomassetti	50000	HadRecoilCocktail	B0B0bar_Btag-HD_Cocktail	DG_BaBar	MixBaBarBkg_NoPair.tcl	done	gjid	INFN-CAGLIARI	27757.46

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Job Monitor - Show job details/output/log

Job Monitor

FAST JOB LIST						
show filter dialog error code description						
hide/show columns						
Show 10 entries						
2089 jobs found matching the search criteria						
runnum	# of ev	Analysis	Generator	Geometry	Background	
1007016815 tomassetti	50000	HadRecoilCocktail	B0B0bar_Btag-HD_Cocktail	DG_BaBar	MixBaBarBkg_NoPair.tcl	
1007016816 tomassetti	50000	HadRecoilCocktail	B0B0bar_Btag-HD_Cocktail	DG_BaBar	MixBaBarBkg_NoPair.tcl	
1007016817 tomassetti	50000	HadRecoilCocktail	B0B0bar_Btag-HD_Cocktail	DG_BaBar	MixBaBarBkg_NoPair.tcl	
1007016818 tomassetti	50000	HadRecoilCocktail	B0B0bar_Btag-HD_Cocktail	DG_BaBar	MixBaBarBkg_NoPair.tcl	
1007016819 tomassetti	50000	HadRecoilCocktail	B0B0bar_Btag-HD_Cocktail	DG_BaBar	MixBaBarBkg_NoPair.tcl	
1007016820 tomassetti	50000	HadRecoilCocktail	B0B0bar_Btag-HD_Cocktail	DG_BaBar	MixBaBarBkg_NoPair.tcl	
1007016821 tomassetti	50000	HadRecoilCocktail	B0B0bar_Btag-HD_Cocktail	DG_BaBar	MixBaBarBkg_NoPair.tcl	
1007016822 tomassetti	50000	HadRecoilCocktail	B0B0bar_Btag-HD_Cocktail	DG_BaBar	MixBaBarBkg_NoPair.tcl	
1007016823 tomassetti	50000	HadRecoilCocktail	B0B0bar_Btag-HD_Cocktail	DG_BaBar	MixBaBarBkg_NoPair.tcl	
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Job details:

Job Details (2010_September, 1007016815)

Field	Value
runnum	1007016815
prod_series	2010_September
soft_release	VO.2.5 311
site	INFN-CAGLIARI
request_name	dummy_request
status	done
grid_job_id	https://albalonga.cnaf.infn.it:9000/A6F9GIH4LHYIJMPIdF1cg
status_reason	
event_num	50000
time	2010-09-24 00:25:36
wct	19633.16
ce	
ts_prepared	2010-09-23 18:41:47
ts_submitted	2010-09-23 18:42:21
ts_running	2010-09-23 18:44:22
uid	tomassetti
PROSCRIPT	HadRecoilCocktail
GENERATOR	B0B0bar_Btag-HD_Cocktail
DG	DG_BaBar
TCL	MixBaBarBkg_NoPair.tcl

Job's Output

channel_type	location_path	file_name	size	
HadRecoil	/storage/gpfs_superb/prod/2010_September/FastSim/HadRecoilCocktail/DG_BaBar/B0B0bar_Btag-HD_Cocktail/1007016815	HadRecoil.root	14.004 mb	✓

Job's Log

/storage/gpfs_superb/prod/2010_September/FastSim/HadRecoilCocktail/DG_BaBar/B0B0bar_Btag-HD_Cocktail/log/run1007016815.log

```
##### Environment #####
VO_SUPERBVO_ORG_SW_DIR=/opt/exp_soft/superbvo
VO_SUPERBVO_ORG_DEFAULT_SE=grid003.ca.infn.it
HOSTNAME=wncall
LFC_HOST=lfcserver.cnaf.infn.it
DPM_HOST=grid003.ca.infn.it
HOSTTYPE=X86_64
LSB_HOSTS=wncall
DSHOST=bbr-serv09.cr.cnaf.infn.it
DPNS_HOST=grid003.ca.infn.it
GLITE_HOST_KEY=/opt/glite/home/glite/.certs/hostkey.pem
LSB_SUB_HOST=grid002
LSB_MCPU_HOSTS=wncall 1
GLITE_HOST_CERT=/opt/glite/home/glite/.certs/hostcert.pem
LOG_LOCATION=/opt/log
LOG_GFAL_INFOSYS=egee-bdii.cnaf.infn.it:2170
GANGA_LCG_VO=superbvo.org
HOSTNAME=wncall.ca.infn.it
Linux wncall.ca.infn.it 2.6.18-194.11.4.el5 #1 SMP Tue Sep 21 05:04:09 EDT 2010
x86_64 x86_64 x86_64 GNU/Linux
#####

wncall: /opt/glite/home/superbvo005/globus-
tmp.wncall.28548.0/https_3a_2f_2falbalonga.cnaf.infn.it_3a9000_2fa6f9glh4lhyijmpidf1
```


Job Monitor - Error codes

Job Monitor

[Fast]

FAST JOB LIST

show filter dialog

hide/show columns

Show 10 entries

error code description

Error codes description: X

Error Code 301:

Error updating the job status (from submitted to running): command or query failed.

Error Code 325:

Error updating the job status (from running to done): command or query failed.

Error Code 401:

Error setting up the software: Storage Element does not exist (or file not exists).

Error Code 425:

Error setting up the software: not recoverable error in tar utility.

Error Code 451:

Error copying input files: Storage Element does not exist (or file not exists).

Error Code 501:

Error running PacProductionApp: time command failed.

Error Code 512:

Error running PacProductionApp: executable not found.

Error Code 525:

Error running PacProductionApp: executable found but can't be executed.

Error Code 551:

Error running PacProductionApp: executable ended with an error status.

Error Code 601:

Error inserting the job output in DB (path, size, etc...): command or query failed.

Error Code 612:

Error copying output files: copy and registration failed.

Error Code 625:

Error copying output files: copy done but registration failed.

Error Code 637:

Error replicating output files: copy and registration failed.

Error Code 651:

Error replicating output files: copy done but registration failed.

Any other Error Code:

Some not handled error occurred.

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Job Monitor - Hide columns

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[Fast]

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TO-DO

- job monitor

- *valutare i benefici di una implementazione server-side*

next step:

- production request  5-6 giorni

- shift init (...e qui saremmo praticamente pronti a lanciare job per la fast)  7-8 giorni

- submission monitor  5-6 giorni



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