

Glideins research

21/11/2017

Panos

Supported VOS per file 10-cms-cern_osg

```
set(['CDFEMI',  
    'CMS',  
    'CMS,ATLAS',  
    'CMS,CMST2UCSD',  
    'CMS,DUNE',  
    'CMS,EngageVO,OSGVO',  
    'CMS,EngageVO,UCLHC,OSGVO',  
    'CMS,EngageVOBigMem,OSGVOBigMem',  
    'CMS,HCC,NEBioGrid,SBGrid,GLUEX,UCSDRok,NWICG,HCCLONG,CMST2UCSD,EngageVO,NEES,OSGVO,CIGI,glowVO,OSGEDU,Fermilab,LIGO,UCLHC,IceCube,OTSGRID,VO,nanoHUB',  
    'CMS,HCC,NEBioGrid,SBGrid,GLUEX,UCSDRok,NWICG,HCCLONG,CMST2UCSD,EngageVO,NEES,OSGVO,CIGI,glowVO,OSGEDU,Fermilab,LIGO,UCLHC,IceCube,nanoHUB',  
    'CMS,HCC,NEBioGrid,SBGrid,GLUEX,glowVO,nanoHUB,NWICG,EngageVO,UCSDRok,LSST,OSGVO,LIGO',  
    'CMS,HCC,NEBioGrid,SBGrid,NWICG,CIGI,OSGVO,Fermilab,CDF',  
    'CMS,IceCube',  
    'CMS,LSST,glowVO,MIS',  
    'CMS,MIS',  
    'CMS,MIS,UCLHC',  
    'CMS,NEBioGrid,SBGrid,GLUEX,glowVO,nanoHUB,EngageVO,UCSDRok,HCC,OSGVO,LSST,CIGI',  
    'CMS,NEBioGrid,SBGrid,glowVO,OSGVO,LSST,Fermilab,HCC',  
    'CMS,NWICG,OSGVO,Fermilab,glowVO,nanoHUB',  
    'CMS,OSGEDU,OSGVO',  
    'CMS,OSGVO',  
    'CMS,OSGVO,glowVO,UCLHC',  
    'CMS,UCSDRok',  
    'CMS,glowVO',  
    'CMS,glowVO,OSGVO',  
    'HCC,NEBioGrid,SBGrid,GLUEX,glowVO,EngageVO,UCSDRok,OSGVO,CMS,CIGI,Fermilab',  
    'HCC,UCSDRok,nanoHUB,NWICG,EngageVO,glowVO,CMS,OSGVO,LBNE,Fermilab,LIGO',  
    'HCC,UCSDRok,nanoHUB,OSGVO,NWICG,EngageVO,glowVO,CMS,Fermilab,LIGO',  
    'HCC4d,glowVO,EngageVOLong4d',  
    'OSGVOGPU,glowGPU,CMSGPU']])
```

Supported VOS per file

```
-----  
10-cmsonly-cern_fnal  
-----
```

```
set(['CMS'])  
  
-----
```

```
10-cmsopp-cern_osg  
-----
```

```
set(['CMS',  
'EngageVO,glowVO,HCC,UCSDRok,OSGVO,MIS,LSST,UC3VO,OSGEDU,Fermilab,LBNE,CMS',  
'EngageVO,glowVO,HCC,UCSDRok,OSGVO,MIS,LSST,UC3VO,OSGEDU,Fermilab,LBNE,OSGVO,CMS',  
'EngageVO,glowVO,HCC,UCSDRok,OSGVO,OSGVO,MIS,LSST,UC3VO,OSGEDU,Fermilab,LBNE,LIGO,CMS',  
'EngageVOHTPC,glowVO,HCCHTPC,UCSDRok,OSGVOHTPC,OSGVO,MIS,LSST,UC3VO,OSGEDU,Fermilab,LBNE,OSGVO,CMS',  
'HCC,NEBioGrid,SBGrid,glowVO,EngageVO,UCSDRok,OSGVO,ATLAS,MIS,Fermilab,LIGO,CMS',  
'HCC,NWICG,EngageVO,UCSDRok,glowVO,OSGVO,LBNE,OSGEDU,LIGO,CMS,Fermilab',  
'HCC,NWICG,EngageVO,UCSDRok,glowVO,OSGVO,OSGEDU,Fermilab,CMS',  
'OSGVO,MIS,glowVO,Fermilab,SBGrid,CMS',  
'OSGVOGPU,HCCGPU,glowGPU,SBGridGPU,FermilabGPU,CMSGPU',  
'glowGPU,OSGVOGPU,SBGridGPU,HCCGPU,FermilabGPU,CMSGPU',  
'glowVO,OSGVO,SBGrid,HCC,GLUEX,Fermilab,DUNE,LIGO,CMS',  
'glowVO,SBGrid,HCC,GLUEX,Fermilab,DUNE,LIGO,CMS'])
```

Supported VOS per file

10-cmst1-all

set(['CMS'])

|

30-local-fnal

set(['', 'CMS', 'FIFE'])

Attributes of the 2 files (dynamic/rcsite on the left)

```
set(['+distro',
    '+maxMemory',
    '+maxWallTime',
    '+queue',
    '+xcount',
    'GLEEXEC_BIN',
    'GLIDEIN_CMSSite',
    'GLIDEIN_CPUS',
    'GLIDEIN_MaxMemMBs',
    'GLIDEIN_Max_Idle',
    'GLIDEIN_Max_Walltime',
    'GLIDEIN_Retire_Time',
    'GLIDEIN_Retire_Time_Spread',
    'GLIDEIN_SE_BASEPATH',
    'GLIDEIN_SEs',
    'GLIDEIN_Site',
    'GLIDEIN_Supported_VO's',
    'VM_MAX_LIFETIME',
    'submit_cluster_size',
    'submit_max_per_cycle',
    'submit_sleep'])
```

```
set(['+DockerImage',
    '+WantExternalCloud',
    '+WantSingularity',
    '+WantWholeNode',
    'ALL_DEBUG',
    'CERNVM_CMS_PAC_URLS',
    'CERNVM_CMS_PROXY',
    'CERNVM_CMS_SITE',
    'CONDOR_ARCH',
    'CONDOR_OS',
    'ENABLE_IPV6',
    'GLIDEIN_Country',
    'GLIDEIN_GLEEXEC_VO's',
    'GLIDEIN_Is_Long',
    'GLIDEIN_Is_Premptable',
    'GLIDEIN_Job_Max_Time',
    'GLIDEIN_Job_Min_Time',
    'GLIDEIN_MaxMemMBs_Estimate',
    'GLIDEIN_Nickname',
    'GLIDEIN_REQUIRED_OS',
    'GLIDEIN_ResourceName',
    'GLIDEIN_Resource_Slots',
    'GLIDEIN_SE_VONAME_LOWERCASE',
    'GLIDEIN_Singularity_Use',
    'MARIANS_VAR',
    'Request_GPUs',
    'TCP_KEEPALIVE_INTERVAL',
    'UPDATE_COLLECTOR_WITH_TCP',
    'VOS_USING_SE_BASEPATH',
    'release_max_per_cycle',
    'release_sleep',
    'remove_max_per_cycle',
    'remove_sleep',
    'submit_slots_layout'])
```

Attributes of all files (dynamic/rcsite on the left)

```
set(['+distro',
'+maxMemory',
'+maxWallTime',
'+queue',
'+remote_cerequirements',
'+remote_queue',
'+xcount',
'EC2_SPOT_PRICE',
'GLEXEC_BIN',
'GLIDEIN_CMSSite',
'GLIDEIN_CPUS',
'GLIDEIN_MaxMemMBs',
'GLIDEIN_Max_Idle',
'GLIDEIN_Max_Walltime',
'GLIDEIN_PROVIDED_ARCH',
'GLIDEIN_REQUIRED_OS',
'GLIDEIN_Retire_Time',
'GLIDEIN_Retire_Time_Spread',
'GLIDEIN_SE_BASEPATH',
'GLIDEIN_SEs',
'GLIDEIN_Site',
'GLIDEIN_Site_Pricing_Model',
'GLIDEIN_Supported_VO_s',
'HAS_USAGE_MODEL',
'VM_MAX_LIFETIME',
'VOS_USING_SE_BASEPATH',
'release_max_per_cycle',
'remove_max_per_cycle',
'submit_cluster_size',
'submit_max_per_cycle',
'submit_sleep',
'submit_slots_layout'])
```

```
'GLIDEIN_MaxMemMBs_Estimate',
'GLIDEIN_Nickname',
'GLIDEIN_Region',
'GLIDEIN_Req_MUPJ_gLExec',
'GLIDEIN_ResourceName',
'GLIDEIN_Resource_Slots',
'GLIDEIN_SE_PATH_Gluex',
'GLIDEIN_SE_VONAME_LOWERCASE',
'GLIDEIN_Singularity_Use',
'GLIDEIN_Use_PGroups',
'MARIANS_VAR',
'PREFER_IPV4',
'RESERVED_DISK',
'RequestCpus',
'Request_GPUs',
'STARTD_DEBUG',
'STARTD_HAS_BAD_UTMP',
'Site_Req_Explicit_Auth',
'TCP_KEEPALIVE_INTERVAL',
'UPDATE_COLLECTOR_WITH_TCP',
'USE_CCB',
'USE_MATCH_AUTH',
'VM_DISABLE_SHUTDOWN',
'VOS_USING_SE_OTHER_SUBDIR',
'VO_Name',
'X509_CERT_DIR',
'release_sleep',
'remove_sleep']])
```

```
set(['+CometOnly',
'+DockerImage',
'+NodeNumber',
'+SleepSlot',
'+VO_Name',
'+WantExternalCloud',
'+WantSingularity',
'+WantWholeNode',
'+count',
'ALL_DEBUG',
'CERNVM_CMS_PAC_URLS',
'CERNVM_CMS_PROXY',
'CERNVM_CMS_SITE',
'CONDOR_ARCH',
'CONDOR_OS',
'CONDOR_VERSION',
'ENABLE_IPV6',
'FactoryType',
'GLEXEC_JOB',
'GLIDEIN_Country',
'GLIDEIN_GLEXEC_VO_s',
'GLIDEIN_Glexec_Use',
'GLIDEIN_Is_Long',
'GLIDEIN_Is_Opportunistic',
'GLIDEIN_Is_Preemptable',
'GLIDEIN_Job_Max_Time',
'GLIDEIN_Job_Min_Time',
```

Attributes of cms non-test files (dynamic/rcsite on the left)

```
set(['+distro',  
    '+maxMemory',  
    '+maxWallTime',  
    '+queue',  
    '+xcount',  
    'EC2_SPOT_PRICE',  
    'GLExec_BIN',  
    'GLIDEIN_CMSSite',  
    'GLIDEIN_CPUS',  
    'GLIDEIN_MaxMemMBs',  
    'GLIDEIN_Max_Idle',  
    'GLIDEIN_Max_Walltime',  
    'GLIDEIN_REQUIRED_OS',  
    'GLIDEIN_Retire_Time',  
    'GLIDEIN_Retire_Time_Spread',  
    'GLIDEIN_SE_BASEPATH',  
    'GLIDEIN_SEs',  
    'GLIDEIN_Site',  
    'GLIDEIN_Site_Pricing_Model',  
    'GLIDEIN_Supported_VO's',  
    'HAS_USAGE_MODEL',  
    'VM_MAX_LIFETIME',  
    'release_max_per_cycle',  
    'remove_max_per_cycle',  
    'submit_cluster_size',  
    'submit_max_per_cycle',  
    'submit_sleep',  
    'submit_slots_layout'])
```

```
set(['+DockerImage',  
    '+NodeNumber',  
    '+VO_Name',  
    '+WantExternalCloud',  
    '+WantSingularity',  
    '+WantWholeNode',  
    '+remote_cerequirements',  
    '+remote_queue',  
    'ALL_DEBUG',  
    'CERNVM_CMS_PAC_URLS',  
    'CERNVM_CMS_PROXY',  
    'CERNVM_CMS_SITE',  
    'CONDOR_ARCH',  
    'CONDOR_OS',  
    'CONDOR_VERSION',  
    'ENABLE_IPV6',  
    'GLExec_JOB',  
    'GLIDEIN_Country',  
    'GLIDEIN_GLExec_VO's',  
    'GLIDEIN_Glexec_Use',  
    'GLIDEIN_Is_Long',  
    'GLIDEIN_Is_Opportunistic',  
    'GLIDEIN_Is_Preemptable',  
    'GLIDEIN_Job_Max_Time',  
    'GLIDEIN_Job_Min_Time',
```

```
    'GLIDEIN_JOB_Wall_Time',  
    'GLIDEIN_MaxMemMBs_Estimate',  
    'GLIDEIN_Nickname',  
    'GLIDEIN_Region',  
    'GLIDEIN_Req_MUPJ_gLExec',  
    'GLIDEIN_ResourceName',  
    'GLIDEIN_Resource_Slots',  
    'GLIDEIN_SE_VONAME_LOWERCASE',  
    'GLIDEIN_Singularity_Use',  
    'GLIDEIN_Use_PGroups',  
    'MARIANS_VAR',  
    'RequestCpus',  
    'RequestGPUs',  
    'STARTD_HAS_BAD_UTMP',  
    'Site_Req_Explicit_Auth',  
    'TCP_KEEPALIVE_INTERVAL',  
    'UPDATE_COLLECTOR_WITH_TCP',  
    'USE_CCB',  
    'VM_DISABLE_SHUTDOWN',  
    'VOS_USING_SE_BASEPATH',  
    'VO_Name',  
    'X509_CERT_DIR',  
    'release_sleep',  
    'remove_sleep'])
```