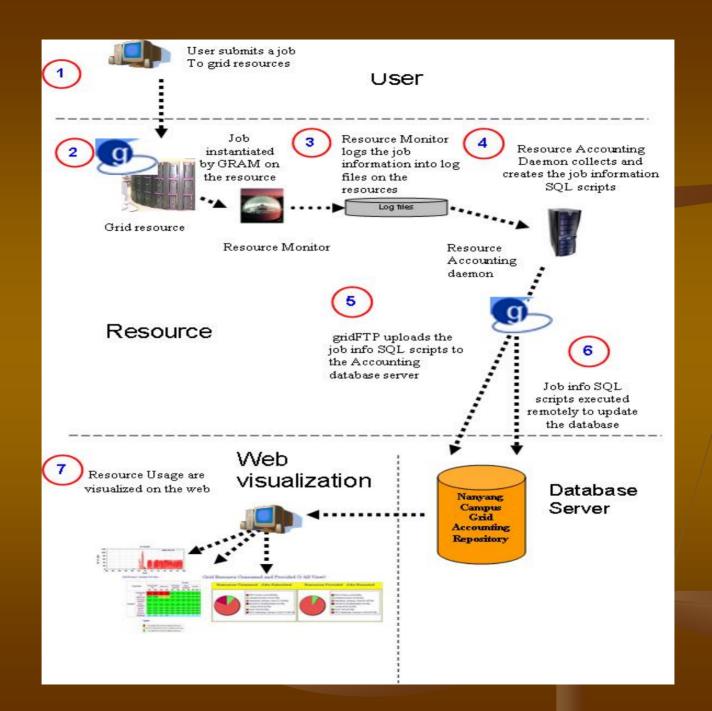


Content

- Recap on MOGAS
- Status of deployment across PRAGMA testbed
- Power of MOGAS
- New GUI
- GRMAP



Consumer/Provider Overview

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 | MU
 | NCHC | AIST | NCSA
 | UNAM
 | SDSC | TITECH | <u>UChile</u>
 | <u>UoHyd</u> | <u>UMC</u> | <u>UZurich</u> | <u>USM</u> | NTU | Total |
|------|---|---|---|---|--|--
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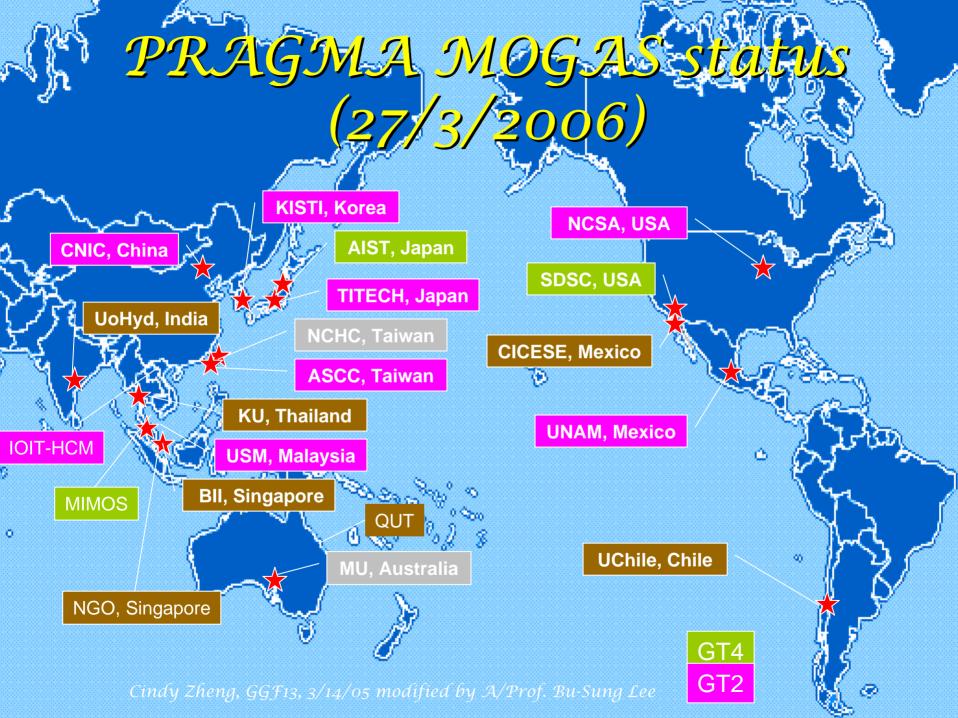
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 | 0.0%
 | 0.0% | 0.609% | 5.834%
 | 2.134%
 | 0.273% | 42.857% | 0.0%
 | 0.0% | 0.0% | 0.0% | 2.069% | 0.0% | 184 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 914
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Resources Consumed - Jobs Submitted Resources Provided - Jobs Executed ASCC (0.022%) ASCC (0.085%) BII (0.0%) BII (0.0%) CICESE (0.0050%) CICESE (0.0%) CNIC (0.0%) CNIC (0.0%) GUCAS (0.0%) GUCAS (0.0%) JLU (0.0%) JLU (0.0%) KU (0.0%) KU (0.0%) KISTI (0.0%) KISTI (5.999%) MU (94.372%) MU (0.0%) NCHC (0.0%) NCHC (0.0%) AIST (0.236%) AIST (61.683%) NCSA (0.011%) NCSA (15.899%) UNAM (0.0%) UNAM (0.0%) SDSC (5.339%) SDSC (16.334%) ■ TITECH (0.0%) ■ TITECH (0.0%) UChile (0.0%) UChile (0.0%) UoHyd (0.0%) UoHyd (0.0%) UMC (0.0%) UMC (0.0%) UZurich (0.0090%) UZurich (0.0%) USM (0.0%) USM (0.0%) ■ NTU (0.0060%) NTU (0.0%)

Top 10 Jobs Executed:

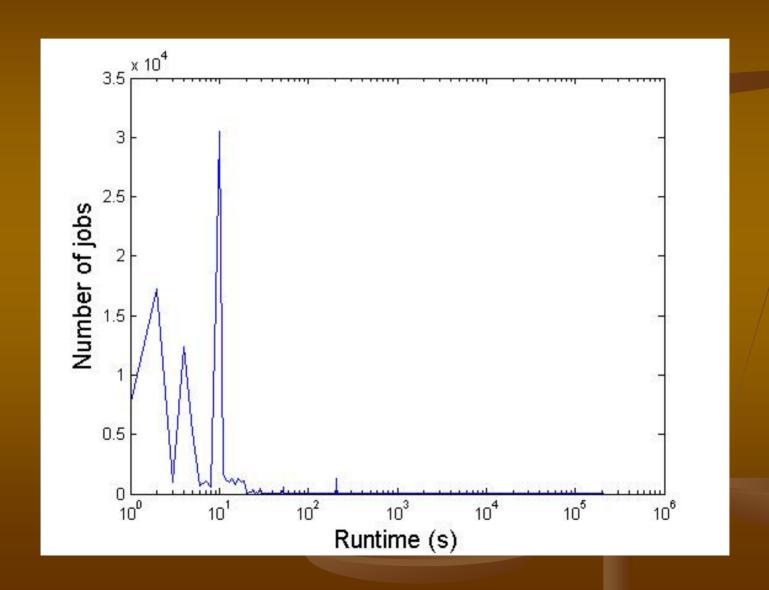
Please select month and year: Sep 🔻 2005 🔻 based on Cost 🔻 Go

Top 10 jobs executed in 2005 Sep based on cost	
/home/cme/.nimrod/cmemahar.csse.monash.edu.aucontact tcp%mahar.csse.monash.edu.au%43011ident 1	351210
/home/cicese/MM5_SANTAANA/MM5/Run/mm5.mpp	215020
/home/cme/.nimrod/cmemahar.csse.monash.edu.aucontact tcp%mahar.csse.monash.edu.au%43002ident 1	181340
/home/takemiya/QMMD_Dynamic/Serv/Ver_1/_stub_QMclient=pine.hpcc.jp:35625gassServer=http://pine	175965
/home/cicese/IMM5_MARTY/IMM5/Run/mm5.mpp	132690
/home/cme/.nimrod/cmemahar.csse.monash.edu.aucontact tcp%mahar.csse.monash.edu.au%43000ident 1	89725
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/home/cicese/IMM5-3.7/Run/mm5.mpp	8010
/home/cicese/MM5_DIARIO/datos/mm5_fase1.csh	7275

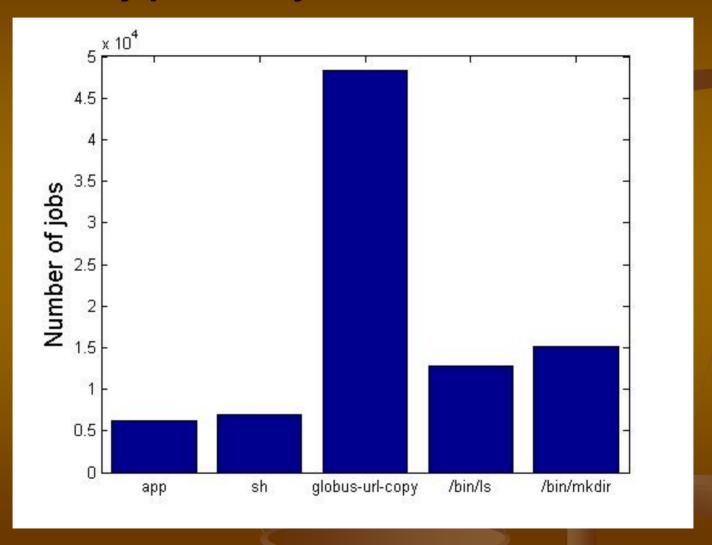


Power of MOGAS

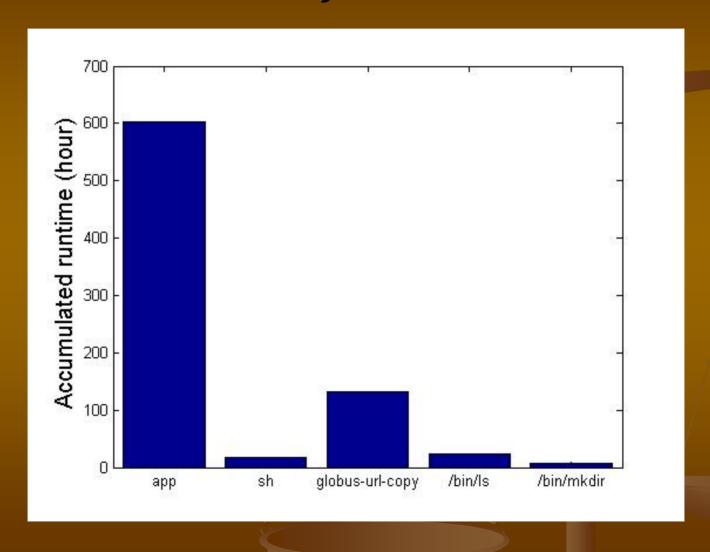
Job characteristics



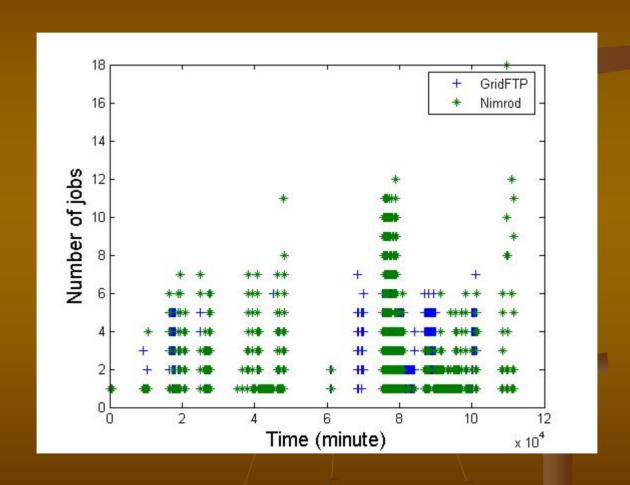
Job types by Monesh Univ.



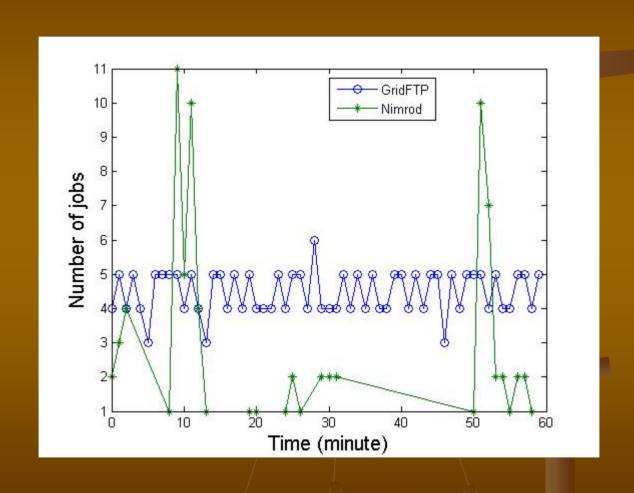
Job runtime by Monesh Univ.



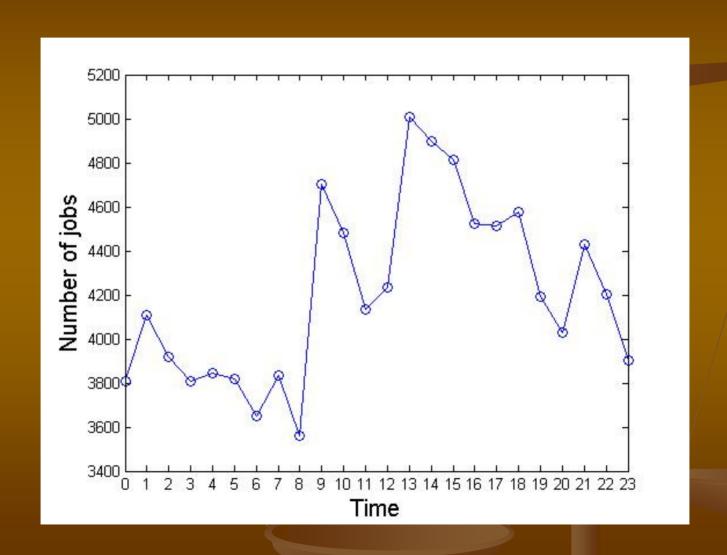
Job distribution across time



Savannah application from MU

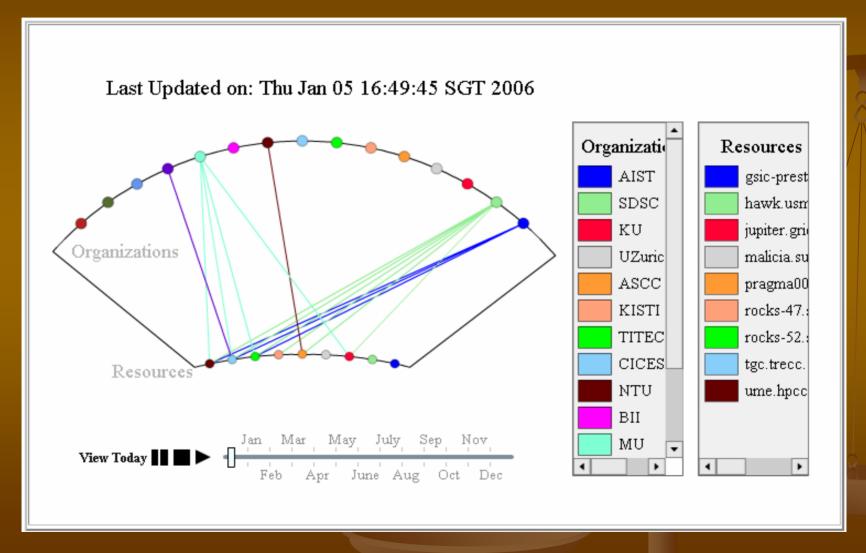


Jobs usage across 24 hrs.

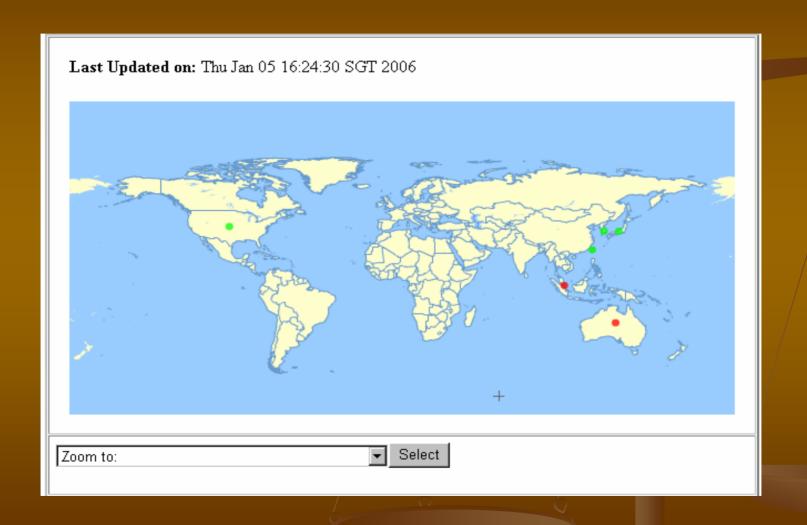




New resource trading view

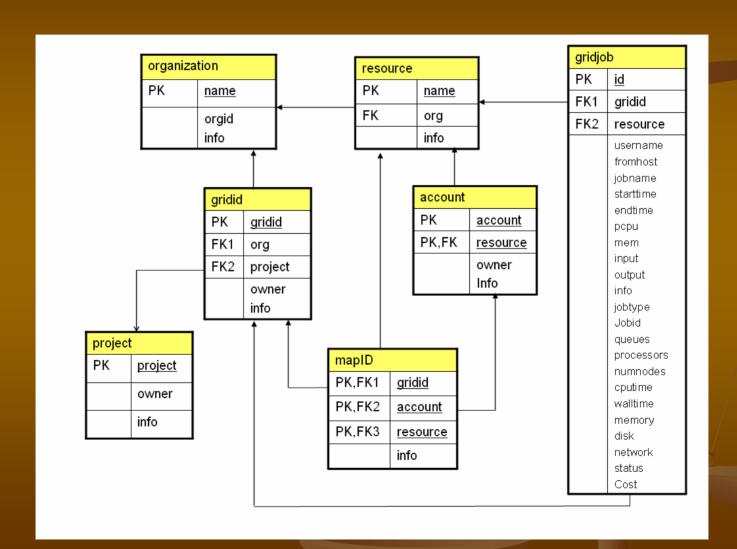


Overall resource trading view



Grid Resource MAP (Thai National Grid & Nanyang Technological University Singapore)

MOGAS Database



SCMSWeb Database

+	+		-+-		+		+		+	+
Field	i	Туре	i	Null	i	Key	i	Default	i	Extra
+	+		+-		+		+		+-	+
id	١	int(11)	1		١	PRI	I	NULL	I	auto_increment
local_job_id	١	varchar(255)	Ι	YES	١		I	NULL	l	1
job_name	١	varchar(255)	1	YES	١		I	NULL	l	1
num_proc	I	int(11)	1	YES	I		I	NULL	l	1
local_uid	١	int(11)	1	YES	١		I	NULL	l	1
local_gid	I	int(11)	1	YES	١		١	NULL	l	1
local_user	I	varchar(32)	1	YES	I		١	NULL	l	1
local_group	I	varchar(32)	I	YES	I		I	NULL	l	1
globus_user	I	varchar(255)	Ι		I		I	NULL	l	1
globus_service		varchar(255)	I	YES	I		I	NULL	l	1
account_string	I	varchar(255)		YES	I		I	NULL	l	1
queue	I	varchar(255)	ı	YES	I		I	NULL	l	1
scheduler	I	varchar(255)	ı	YES	I		I	NULL	l	1
hostname	I	varchar(255)	ı	YES	I		I	NULL	l	1
submit_time	I	datetime	ı	YES	I		I	NULL	l	1
start_time	I	datetime	ı		I		I	NULL	l	1
end_time	I	datetime	ı	YES	I		I	NULL	l	1
year	I	int(11)	ı	YES	I		I	NULL	l	1
month	I	int(11)	ı	YES	I		I	NULL	l	1
day	I	int(11)	•	YES	I		I	NULL	l	1
exit_status	I	int(11)	•	YES	I		I	NULL	l	1
source	I	varchar(255)			I		I	NULL	l	1
target	I	varchar(255)	I		I		I	NULL	l	1
memory	I	varchar(20)	I		I		I	NULL	l	1
disk	I	varchar(20)	I	YES	I		I	NULL	l	1
cpu	I	varchar(20)	I	YES	I		I	NULL	l	1
+	+		+		+		+		+-	+

MOGAS Table --- gridjob

	L		L		L
Field	l Type	Null	l Key	 Default	Extra
id gridid resource username projectname fromhost gramjobcontact portalid jobname starttime endtime pcpu mem input output info jobtype jobid queue processors numnodes cputime walltime walltime memory disk network	int(20) unsigned varchar(255) varchar(255) varchar(255) varchar(255) varchar(255) varchar(255) varchar(255) int(20) varchar(255) varchar(255) varchar(255) varchar(255) varchar(255) int(20) int(10) int(10) int(20) int(20) int(20) int(20) int(20)	I YES	PRI	I NULL I I I I I I I I I I I I I I I I I I	auto_increment

Proposed Shared Table

GGF field	MOGAS	SCMSWEB	Proposed field name	Proposed Type
-	id	id	id (primary key - auto increment)	int(20) unsigned
Username	username	local_user	username	varchar(255)
ProjectName	projectname	account_string	projectname	varchar(255)
Jobid	jobid	local_job_id	jobid	varchar(255)
Queue	queue	queue	queue	varchar(255)
Gridld	gridid	globus_user	gridid	varchar(255)
FromHost	fromhost	source	fromhost	varchar(255)
execHost	resource	target	exechost	varchar(255)
StartTime	starttime	submit_time	starttime	int(20)
EndTime	endtime	end_time	endtime	int(20)
Processors	processors	num_proc	processors	int(11)
NumNodes	numnodes	(NULL)	numnodes	int(11)
Cputime	cputime	сри	cputime	int(20)
Walltime	walltime	(COMPUTE)	walltime	int(20)
Memory	memory	memory	memory	varchar(255)
Disk	(NULL)	disk	disk	varchar(255)
Network	(NULL)	(NULL)	network	int(20)
jobName	jobname	job_name	jobname	varchar(255)
Status	status	exit_status	status	int(11)
Charge	cost	(NULL)	charge	int(20)
JobType	jobtype	scheduler	jobtype	varchar(255)

Go where NO grid has gone BEFORE

MOGAS is there to help