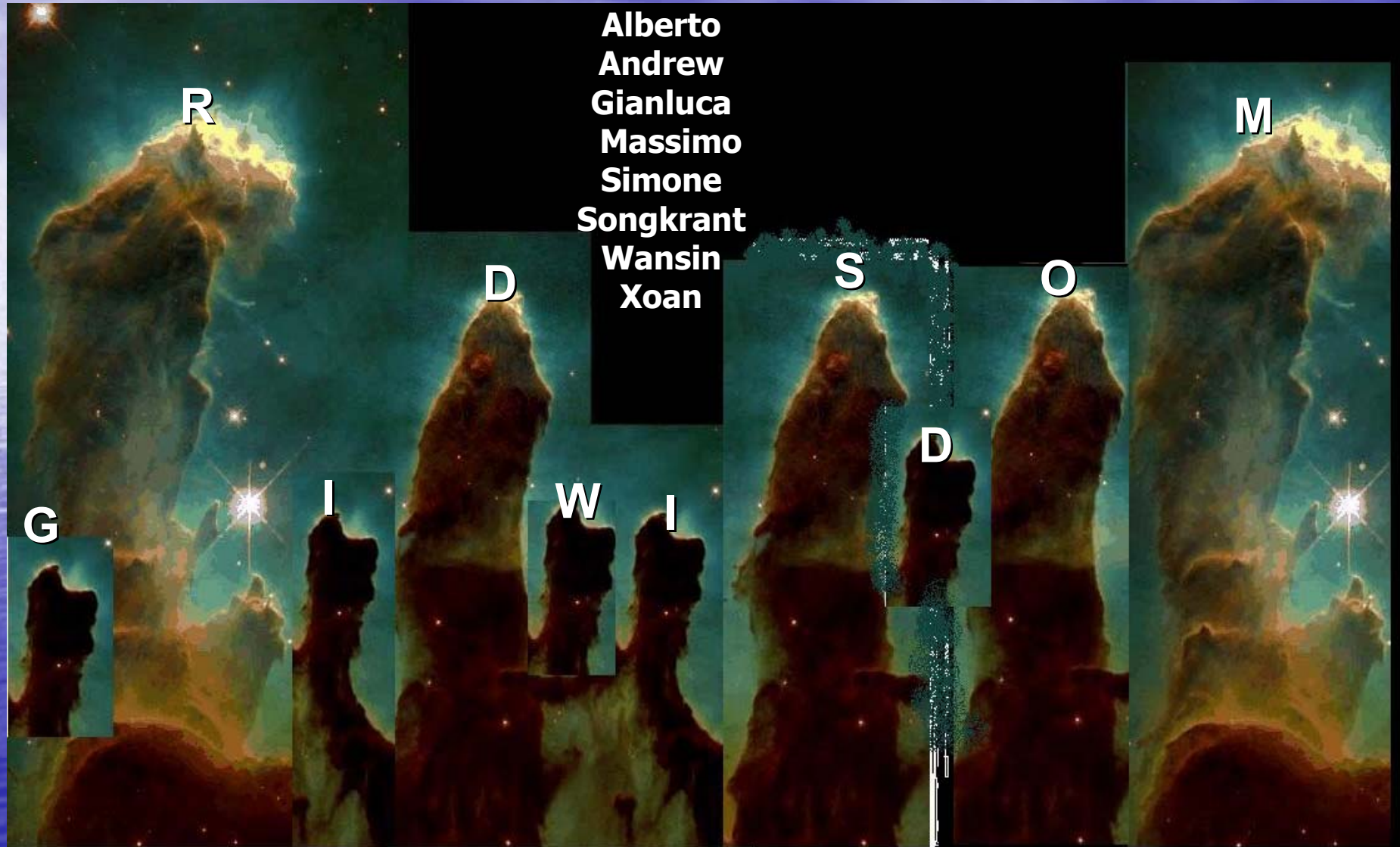


# Grid Summer School'05: Group 4



# Content

- Our Scenario
- Our Solution :
  - Intra Department
  - Inter Department
- Our Efforts In “Search For Knowledge”
- Feedback
- The Ultimate Spirit
- About Group 4 Grid People.....



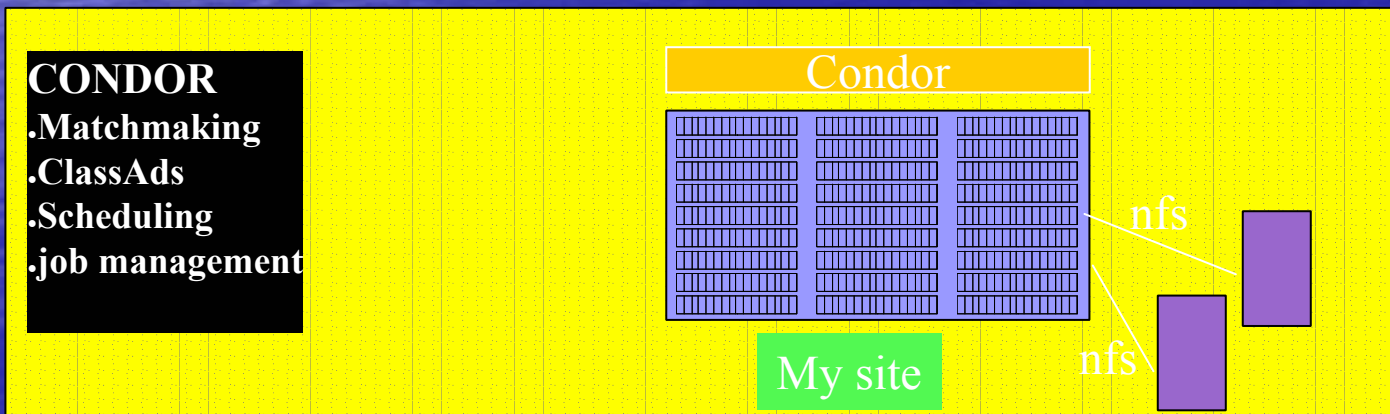
Our Scenario :

Collaboration In A Virtual  
Organisation

# Scenario 1 : Intra-Organisation

- The resources are used only by the members of the organization.
- The resource usage policies are well defined.
- Individual users decrease compute time
- Group as a whole increases resource use.
- Load balancing is becoming an issue.
- We need an intra-organisation scheduling system

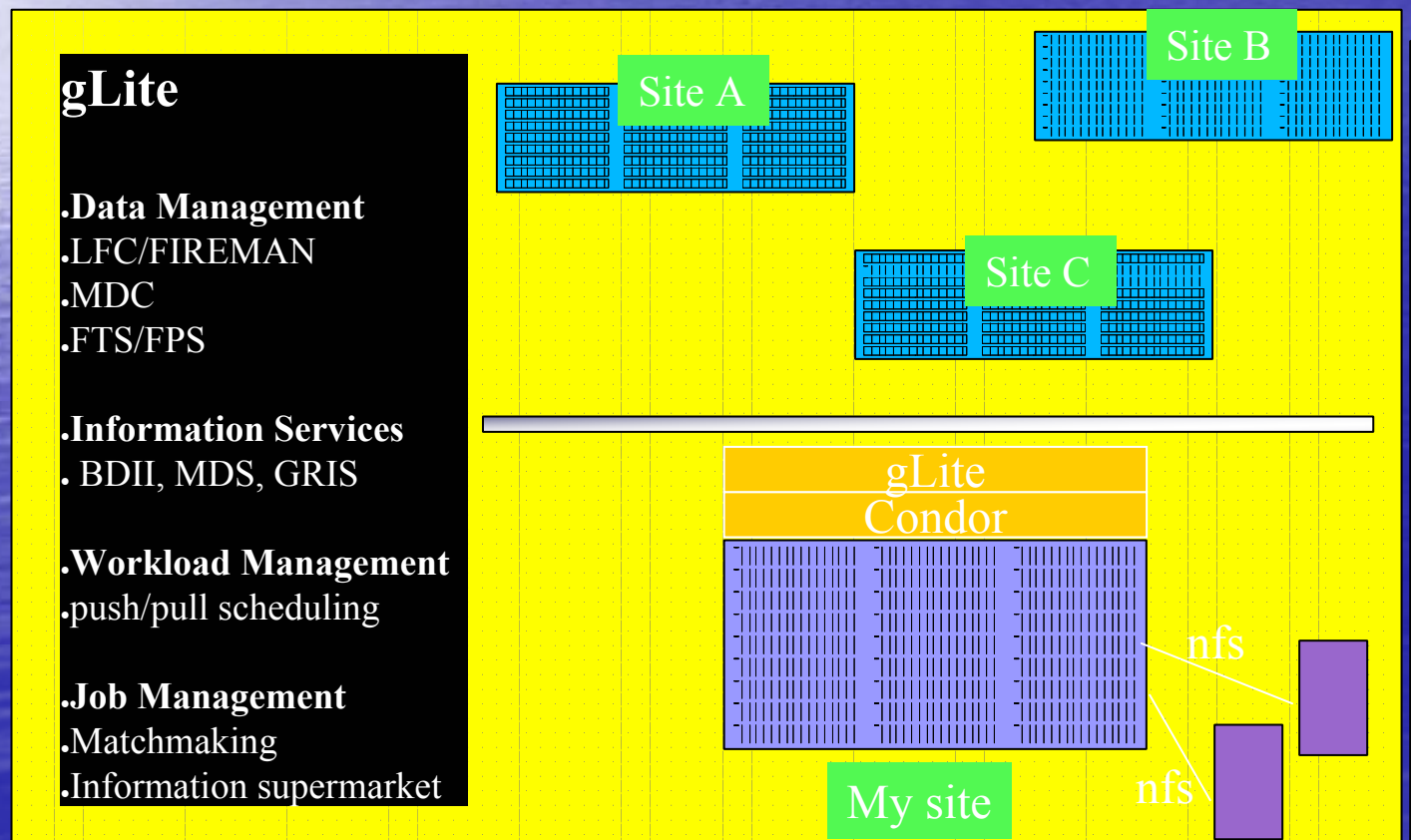
## Solution :



# Scenario 2 : Inter-Organisation

- Sharing both technological and human resources.
- The security policies need to be strengthened.
- Need for a broker to route the job to the best available resources

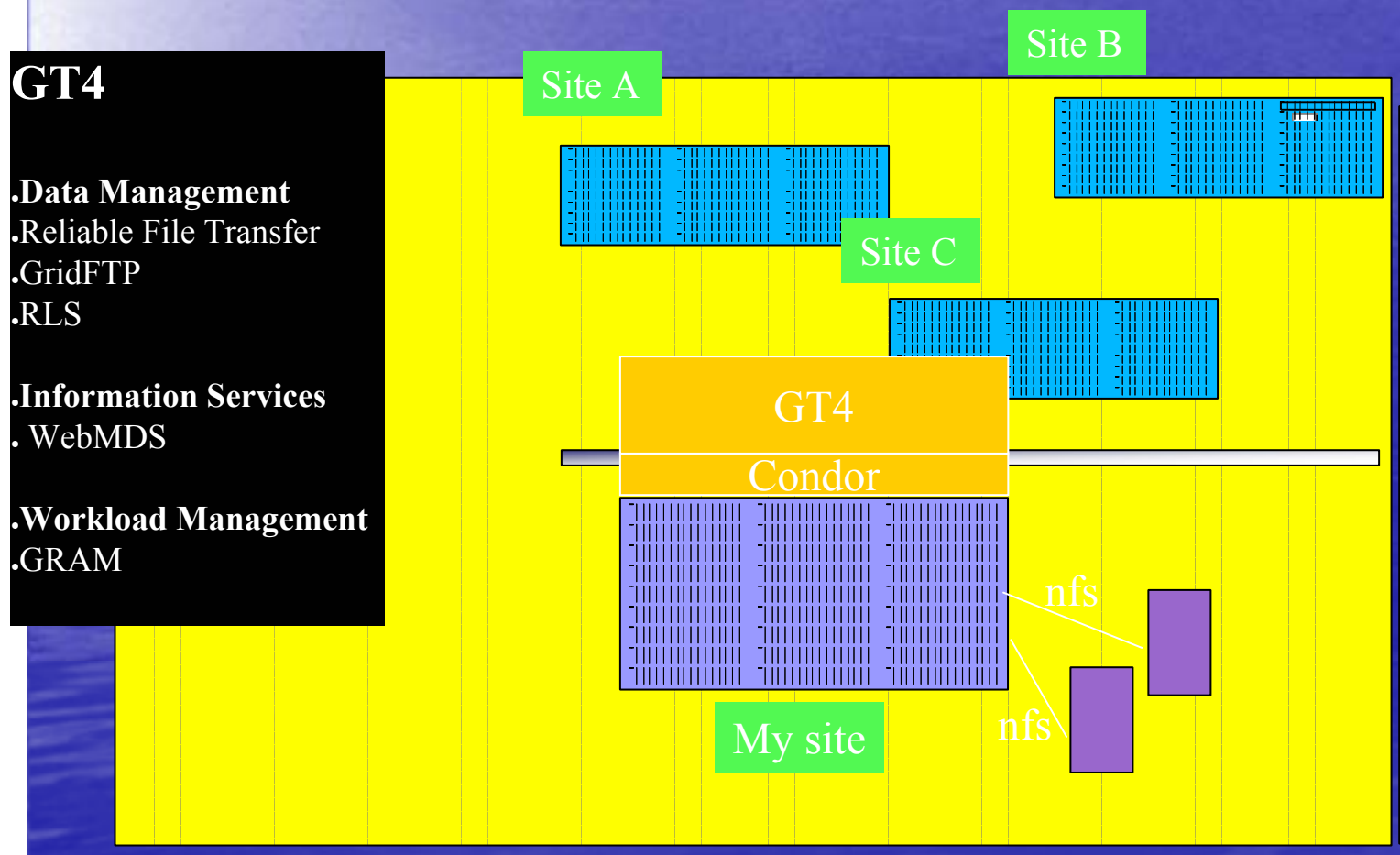
## Solution:



# Scenario 3 : Inter-Organisation

- We want to expose computational and storage resources as web services
- We are focused on data-management issues
- Need to transfer huge amounts of data among different organizations

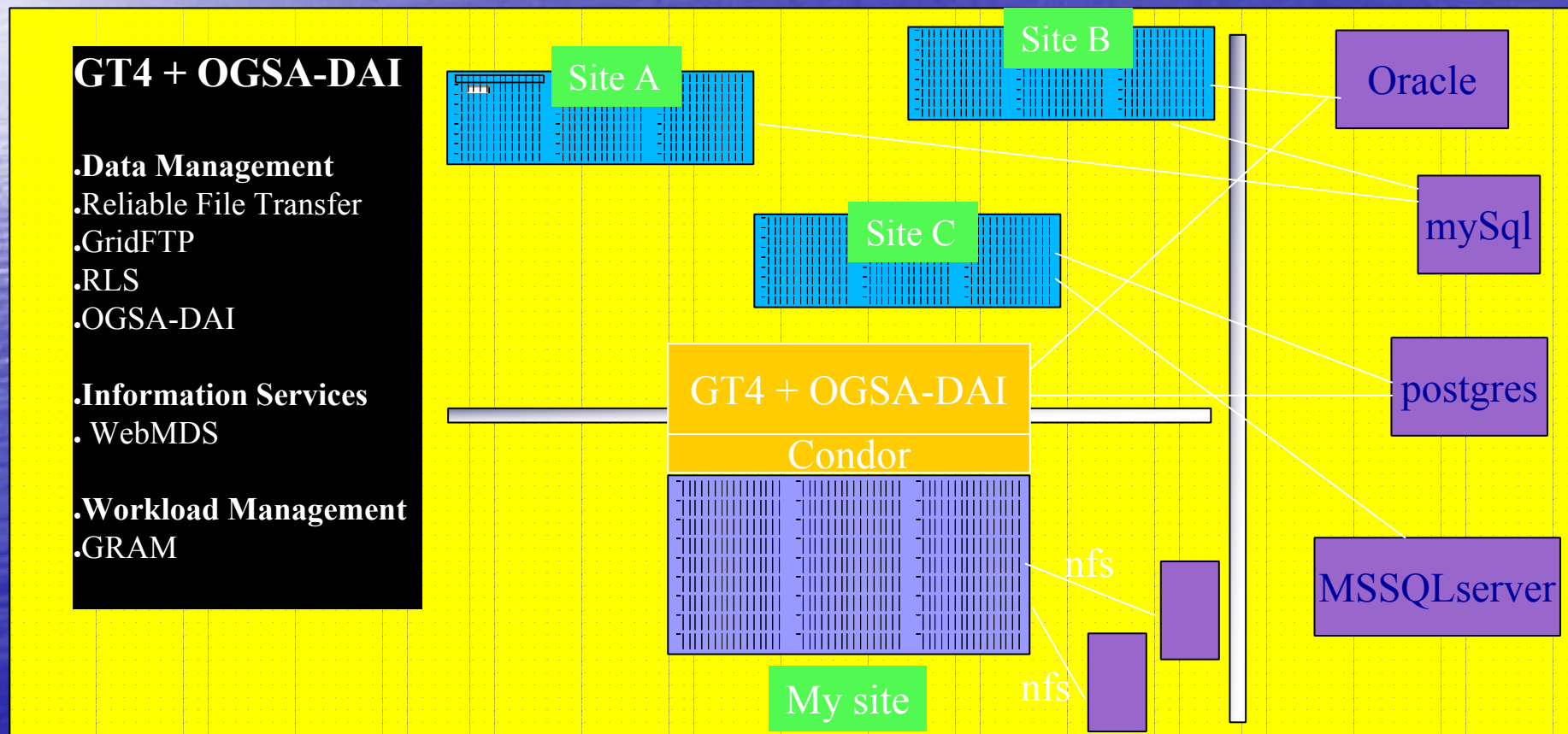
## Solution:



# Scenario 4 : Virtual Organisation

....our data management requirements are getting more complex

- not only transfers of huge amounts of data among different organizations
- also want to query external, heterogeneous data sources
- Final aim is to achieve a system of heterogeneous distributed resources for users to access and use



# Our Efforts In "Search For Knowledge"

Day	Exercise	Stages	Status	Comments
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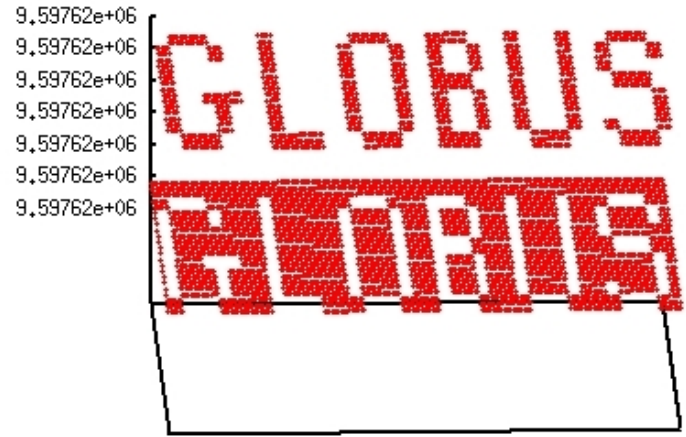
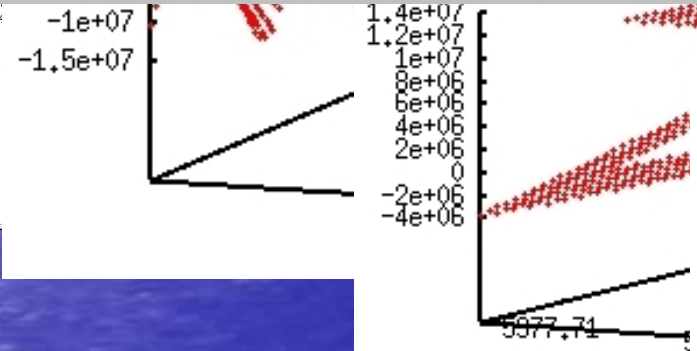
# Our Results for Pillar of Wisdom

```

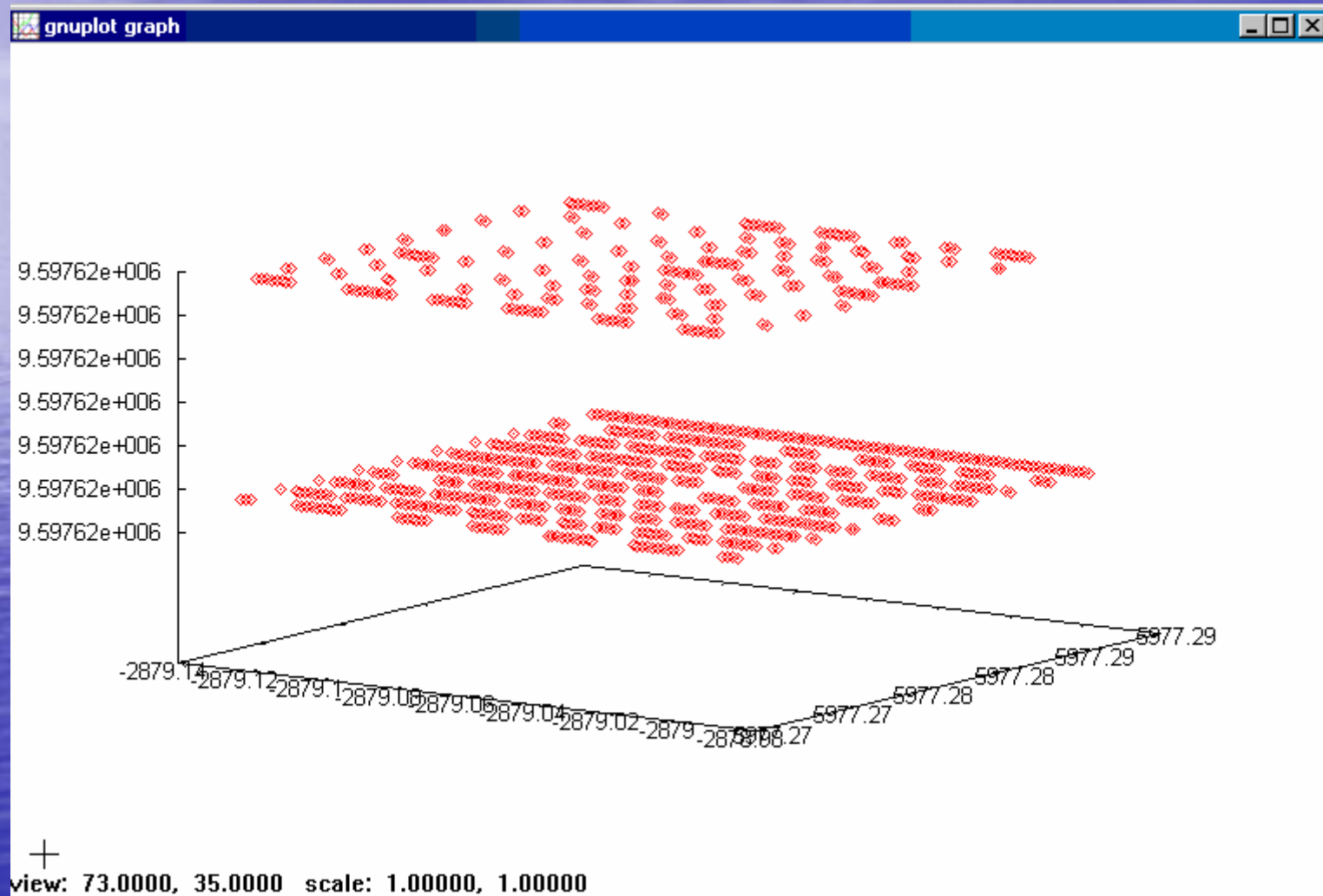
morea@ws-31:~$ java -cp $CLASSPATH Scanner -2879.424535 5976.463305 10.0 0.1
Scanning:
Iteration: 1 - -2879.574535 , 5976.313305
Iteration: 2 - -2879.574535 , 5976.313305
Iteration: 3 - -2879.574535 , 5976.313305
Iteration: 4 - -2879.574535 , 5976.313305
Iteration: 5 - -2879.574535 , 5976.313305
Iteration: 6 - -2880.049999 , 5977.049999
Iteration: 7 - -2880.174535 , 5977.049999

```

X Center	Y Center	X Width	Y Width
9135.4359374	3464.9812499	~0.831	~0.850
2878.7812500	5977.0937500	~1.250	~1.250
9410.8750000	-7677.0499999	~0.625	~0.700



# Our Results for Pillar of Wisdom



# Suggestions For Pillar Search

- Provide tools to aid users in managing the pillars :
  - Measurement refinement local search for discontinuity
  - Graphics tools for rendering the image
- A central OGSA-DAI database which allows developers to store and share the results.
- Path-guided searches
- Split searches in several distributed jobs
- Another possible method to estimate the pillar location :
  - Use the discontinuity of the function to locate the position of a pillar. An abrupt change in the gradient of the slope is a fast & good indication of the vicinity of a pillar.

# The Ultimate Spirit !!

Gianluca  
(Chief Finance Officer)

Xoan  
(Chief Information Officer)

Andrew  
(Chief Visionary Officer)

Wansin  
(Chief Secretary Officer)

Songkrant  
(Chief Executive Officer)

Alberto  
(Chief Techie)

Massimo  
(Chief Technology Officer)

Simone  
(Chief Operation Officer)

