

# Cloud PaaS

Hadoop  
Iterative MapReduce  
HDFS  
Hbase  
Swift Object Store

## IaaS

Nimbus  
Eucalyptus  
OpenStack  
ViNE

## GridaaS

Genesis  
Unicore  
SAGA  
Globus

## HPCaaS

MPI  
OpenMP  
CUDA

## TestbedaaS

**Infrastructure:** *Inca, Ganglia*  
**Provisioning:** *RAIN, CloudMesh*  
**VMs:** *Phantom, CloudMesh*  
**Experiments:** *Pegasus, Precip,*  
*Cloudmesh*  
**Accounting:** *FG, XSEDE*