DARE Framework with BigJob/DIANE

DARE-based Application

DARE

| BigJob API | BigJob Manager | BigJob/DIANE |
| BigJob Manager | Map Reduce |

DIANE Master	DIANE Submitter	DIANE Submitter	DIANE Submitter
	GANGA	GANGA	GANGA
	SAGA	SAGA?	SAGA
	Globus	gLite	Cloud

<CORBA> *<CORBA>* *<CORBA>* *<GRAM>* *<WMS>* *<CREAM>* *<OCCI?>*

<CORBA>

W — HPC Cluster

W — HTC CE

W — IaaS

W = DIANE Worker; See Canvas 2
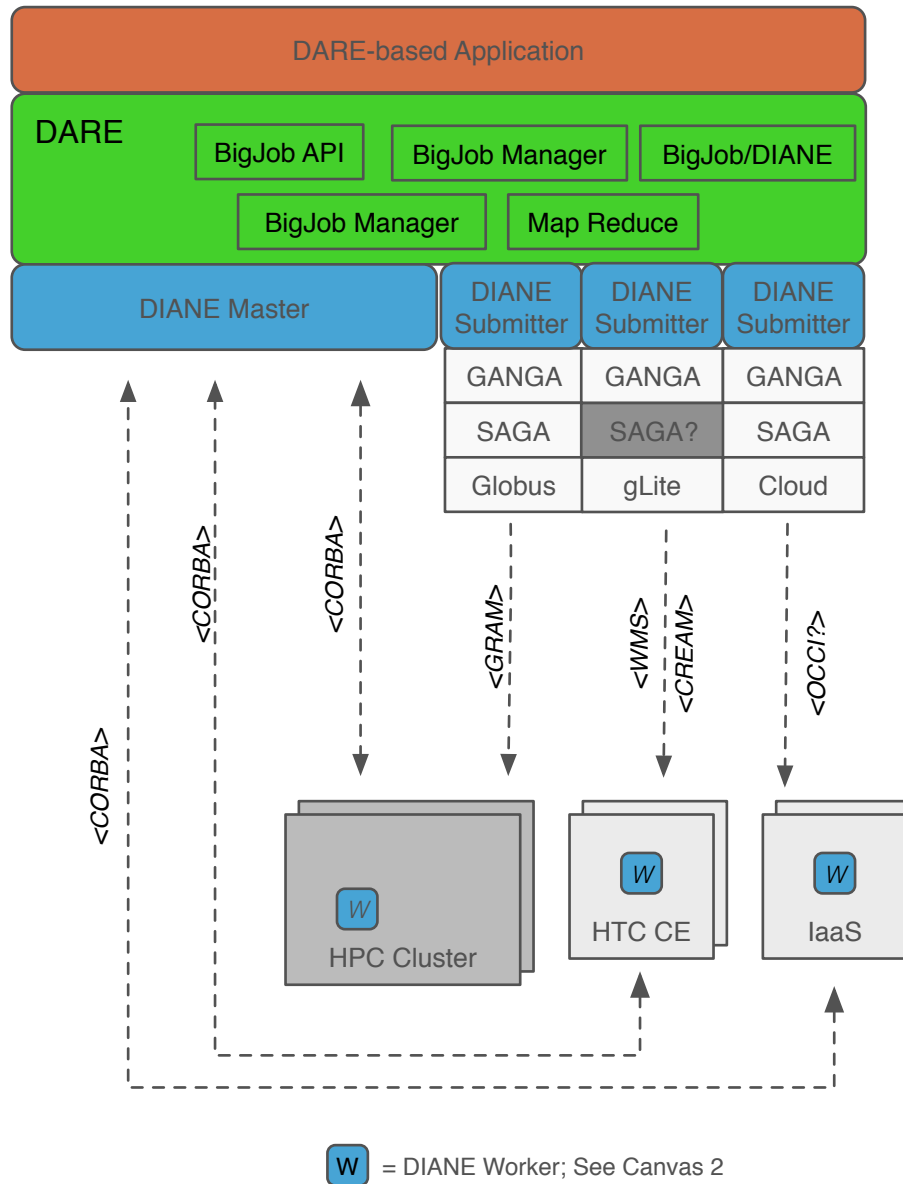
Symbols

S = Single Core DIANE Worker

P = Partial Node DIANE Worker

F = Full Node DIANE Worker

M = Multi Node DIANE Worker

MH = Multi Node Head DIANE Worker

SP = Single Worker DIANE Proxy

MP = Multi Worker DIANE Proxy

■ (grey) = Allocated core

■ (black) = Unallocated core

T = Application Task

W = DIANE Worker on Core

S =
Node with 4 cores
DIANE Worker
T

P =
Node with 4 cores
DIANE Worker
T T ■ ■

F =
Node with 4 cores
DIANE Worker
T T T T

M =
Node with 4 cores
W T T T

Node with 4 cores
■ T T T

Node with 4 cores
■ T T ■

Node with 4 cores
■ ■ ■ T

MH =
DIANE Worker (on Headnode)

Node with 4 cores
T T T T

Node with 4 cores
■ T T T

Node with 4 cores
■ T T ■

Node with 4 cores
■ ■ ■ T

SP =
DIANE Proxy (on Headnode)

Node with 4 cores
W T T T

Node with 4 cores
■ T T T

Node with 4 cores
■ T T ■

Node with 4 cores
■ ■ ■ T

MP =
DIANE Proxy (on Headnode)

P M
S F