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Understanding and mastering dynamics in computing grids: processing moldable tasks with user-level overlay

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List of Abbreviations

AWLB	Adaptive Workload Balancing
CDF	Cumulative Probability Distribution Function
CE	Computing Element
CERN	European Laboratory for Particle Physics
CORBA	Common Object Request Broker Architecture
CREAM	Computing Resource Execution And Management
DIANE	Distributed Analysis Environment
EGEE	Enabling Grids for e-Science
EGI	European Grid Initiative
HAF	Heuristic Agent Factory
HPC	High Performance Computing
HTC	High Throughput Computing
LHC	Large Hadron Collider
LQCD	Lattice Quantum Chromodynamics
MPI	Message Passing Interface
MPP	Massive Parallel Processing
MTA	Moldable Tasks Application

NDGF	Nordic DataGrid Facility
OpenMP	Open Multi-Processing
OPS	Operations VO
PDF	Probability Density Function
QoS	Quality of Service
RB	Resource Broker
SLA	Service Level Agreement
SMP	Symmetric Multi-Processing
VO	Virtual Organization
VOMS	Virtual Organization Management Service
WLCG	Worldwide LHC Computing Grid
WMS	Workload Management System
WN	Worker Node