

NOAA R&D HPCS RFP

Appendix H

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Glossary

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Availability: The availability level of a computer, component, or device is a percentage figure determined by dividing the operational use time by the difference between wallclock and null time.

Computer: A computational platform that shares a high-speed interconnect (largest useful MPI program).

Core: Basic computational unit.

Downtime: That period of time when all of an HPCS component's workload cannot be accomplished due to a malfunction in the Contractor-maintained HPCS hardware or software, or when the HPCS or a component of the HPCS is released to the Contractor for maintenance.

HPCS: A high performance computing system can be one large system or an aggregation of subsystems. A given system/subsystem can be further described by individual components. A single component may span multiple subsystems.

Integrated Management Team: Government personnel responsible for the successful integrated management of the following HPC functions: Acquisition Management, Resource Management, Architecture Management, Long Term Planning, External HPC Collaboration Management and for HPC monitoring and reporting activities.

Null Time: The period of time when the workload cannot be accomplished due to environmental failure at a Government furnished site, such as loss of electric power or cooling, or recovery from environmental failure.

Site Lead: Government manager of NOAA HPC site.

Subsystem: The set of components which comprise a HPCS.