

HPC Profile WG  
OGF 24 Singapore  
Tues Sept 16 0900-1030

Marty Humphrey  
Steven Newhouse  
Chairs

# HPC Profile WG

- Objective: the profile and protocol specifications needed to realize **the vertical HPC use case of batch job scheduling of scientific/technical applications**
- Scope
  - **Identify any changes/extensions** that are deemed necessary to **existing protocol specifications** and will work with the relevant working groups to try to affect the identified changes/extensions
  - **Identify additional protocol specifications** that need to be defined and will either work on their definition or spin them out to additionally defined working groups.

# Evolutionary Approach

- A simple **base case** will be defined that we expect to have universally implemented by all batch job scheduling clients and schedulers.
- All additional functionality will be defined in terms of optional **extensions** (which are anticipated to be widely applicable)

GFD-I.100  
OGSA HPC Profile WG

Marvin Theimer, Microsoft  
Chris Smith, Platform Computing  
Marty Humphrey, University of Virginia

July 1, 2006

## HPC Job Scheduling: Base Case and Common Cases

### Status of This Document

This document provides information to the Grid community on batch job scheduling of scientific/technical applications, also broadly referred to as the “core” high performance computing (HPC) use case. It does not define any standards or technical recommendations. Distribution is unlimited.

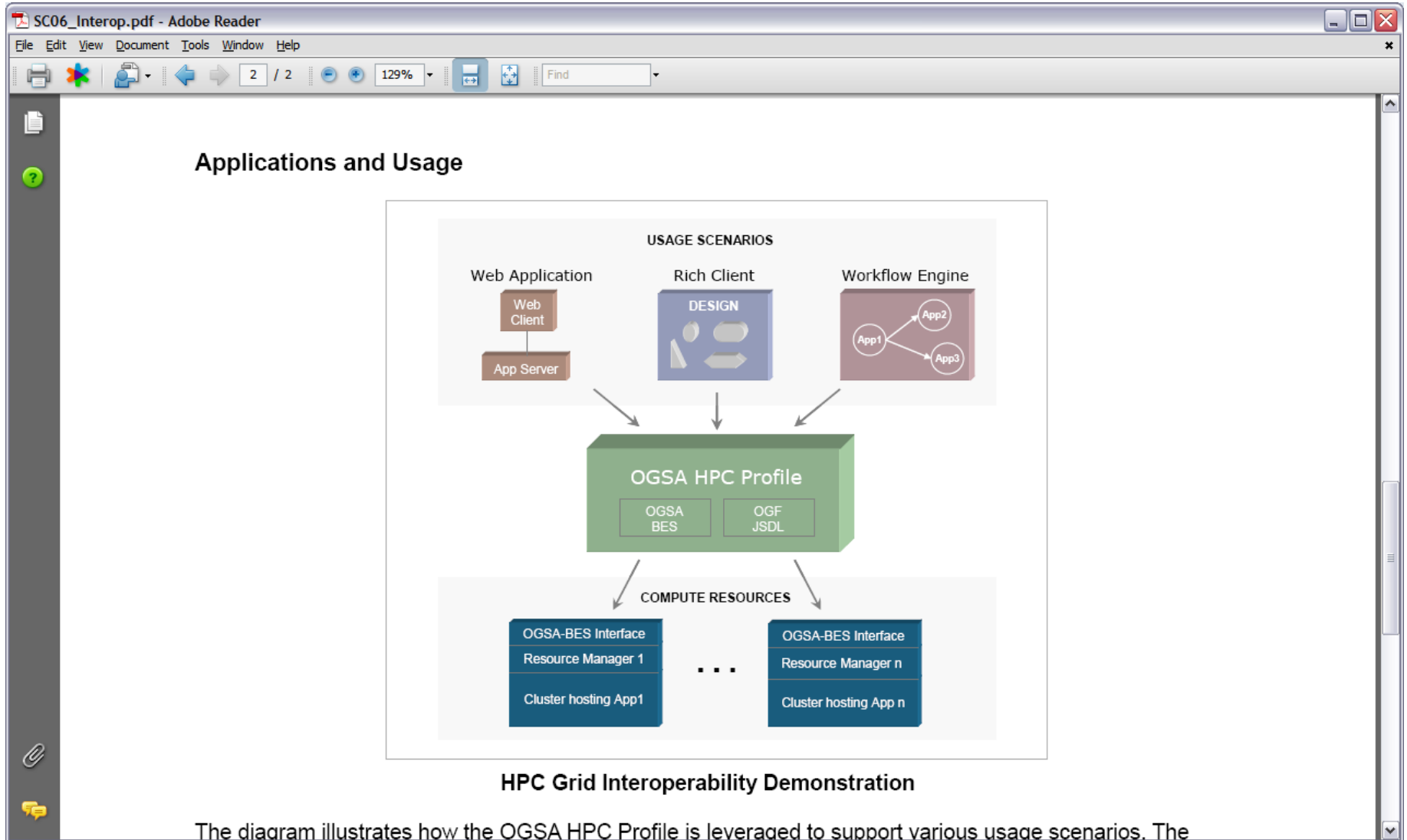
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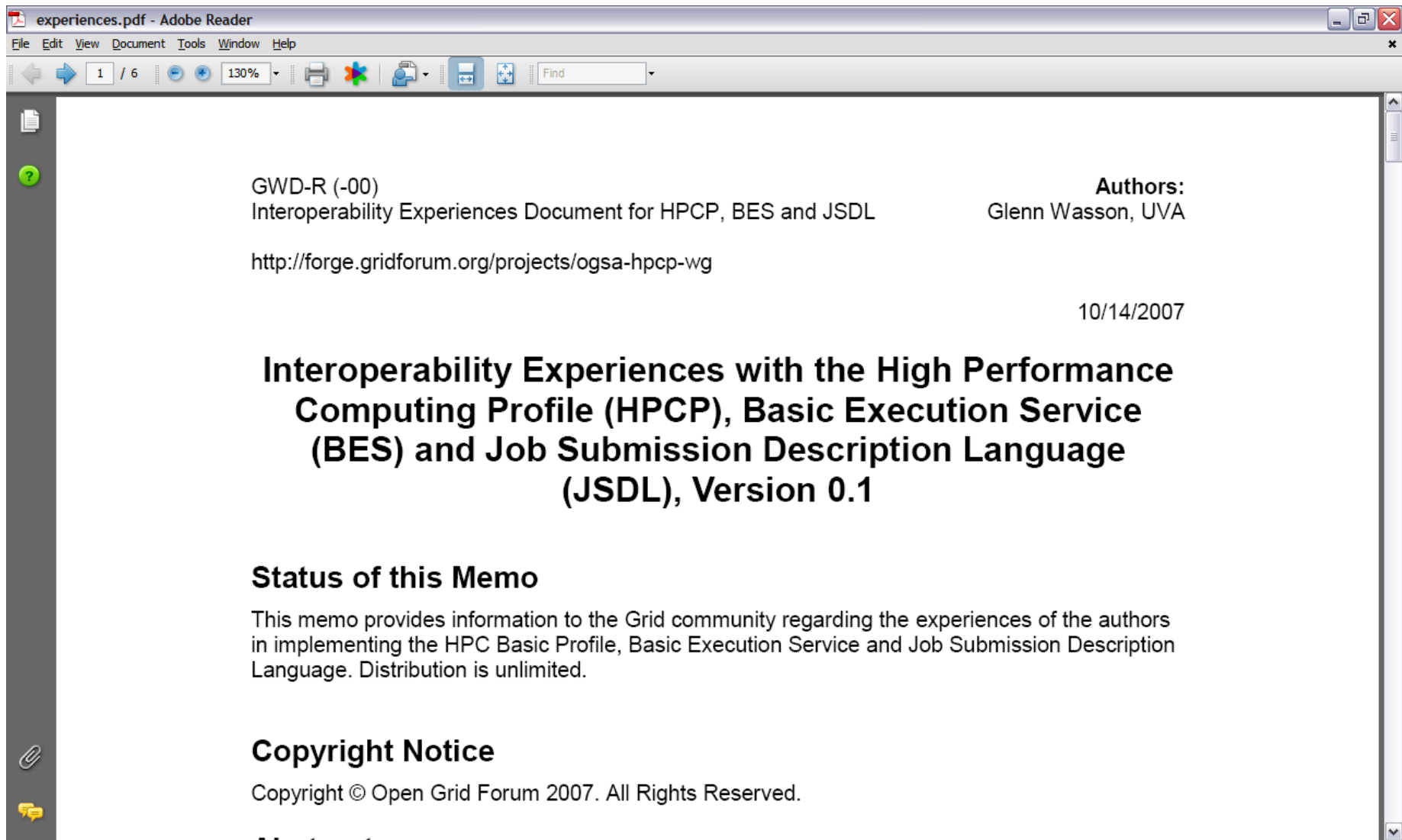
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### Abstract

This document describes the set of use cases for batch job scheduling of scientific/technical applications, also broadly referred to as the core high performance computing (HPC) use case. A simple base case is defined that we expect to have universally implemented by all batch job scheduling clients and schedulers. Additional "Common Cases" are enumerated, which are anticipated to be applicable to at least two but not all batch job scheduling clients and schedulers.

# Outreach: SC06 and SC07





GWD-R (-00)  
Interoperability Experiences Document for HPCP, BES and JSDL

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<http://forge.gridforum.org/projects/ogsa-hpcp-wg>

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## **Interoperability Experiences with the High Performance Computing Profile (HPCP), Basic Execution Service (BES) and Job Submission Description Language (JSDL), Version 0.1**

### **Status of this Memo**

This memo provides information to the Grid community regarding the experiences of the authors in implementing the HPC Basic Profile, Basic Execution Service and Job Submission Description Language. Distribution is unlimited.

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# OGF Document Status

- HPC Basic Profile: **OGF standard**
- File Staging Profile (GFD.135, June 28 08): OGF Proposed standard
- Advanced Filter (GFD.???, Nov 2 2008): In public comment period

# Open Source Implementations

- BES++
- UVa Windows HPC Server
- GridSAM

# Current Activities/Drafts

- Application Template
- Kerberos Profile
- GLUE

# Uptake/Outreach

- SC08
  - Show Floor
  - Birds-of-a-Feather (BOF)