

Collaborative Research Initiatve





PREDICTING RESOURCE REQUIREMENTS OF A JOB SUBMISSION

Ali Arshad4, Anjum Ashiq4, Bunn Julian1, Cavanaugh Richard5, Lingen Frank1, McClatchey Richard 3, Newman Harvey1, Steenberg Conrad1, Thomas Michael1, Willers Ian2, Mehmood Muhammad Atif4

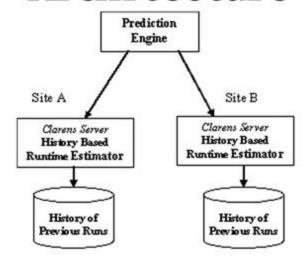
1California Institute of Technology
Pasadena, CA 91125, USA
2CERN
Geneva, Switzerland
3University of the West of England
Bristol, UK
4National University of Sciences and Technology
Rawalpindi, Pakistan
5University of South Florida, USA

A Grid Scheduler Module that facilitates effecient job planning by letting the job planner know in advance Runtime of an input job on available execution sites

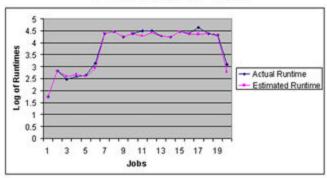
Salient Features

- Estimates runtime of an input job using history based approach.
- 2) Runtime estimation is done on each individual execution site by Clarens based estimator service.
- Estimates runtime with a mean accuracy of more than 80%.

Archi tecture



Results



Estimation Algo

