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Integrasoft Grid Fabric (IGF) ROI Analysis and ROA Analysis

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Result Summary

ROI

This paper discusses the ROI of Grid computing with the IGF Data Grid Fabric and comparing the Grid ROI to that of a tradition Client/Server configuration.

In order to make a valid ROI comparison, a base line needs to be established. These base lines are:

- total compute power normalized to a common base line unit of measurement
- total data capacity of the configuration
- Cost per compute power unit
- Developer effort to take advantage of the additional compute power.

The table below is a summary of their respective counter parts detailed later in this study.

	Client / Server	Grid (With IGF)
Harness-able Compute Power	<input checked="" type="checkbox"/> NO Linear Scaling of available compute power to number of servers	<input checked="" type="checkbox"/> Scales Linearly with the computers on the Grid
Cost per Compute Power	<input checked="" type="checkbox"/> Costs per compute unit (Well over \$1 per unit) rises in proportion to the number of servers	<input checked="" type="checkbox"/> Cost per compute unit remain constant (less than \$1 per unit) with the number of computers on the Grid
Data Capacity	<input checked="" type="checkbox"/> NO Scaling of Data Capacity	<input checked="" type="checkbox"/> Data Capacity scales linearly with the number of computers on the Grid
Software Modifications	<input checked="" type="checkbox"/> With each change in the server topology, software changes are required to take advantage of the additional resources	<input checked="" type="checkbox"/> Once a program is Grid enabled, NO additional software changes are required to take advantage of the additional compute resources.

ROA

A concrete ROA is specific to each client's unique environment and use of Grid, an analysis of rate of change of the individual ROA parameters is shown. Based on the rate of change of the benefit stream vs. cost and asset it is shown that:

The Δ ROA for Grid is a positive constant value where the Δ ROA for Client Server is a variable that will, at some point turn to a negative.

The Δ ROA for Grid with Grid Data Management is two times greater (in a positive direction) than that of Grid without Data Management.

For the Complete Analysis

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