

Collaborative Research Programme Project Definition (1 of 2)

Project Number:	SWE001
------------------------	--------

Project Title:	Visualising large amounts of real-time data
-----------------------	---

Relation to Research Areas:
Visualisation

Background of Project Provider:
Jade Software Corporation is the main beneficiary of this project, due to them proposing the project and providing the funding to support the project.

Statement of Need:
<p>Jade is an objected oriented database solution for the support of complex business solutions. With the Jade Monitor interface being provided to support users in monitoring the performance and health of a Jade system implementation.</p> <p>A Jade environment can be studied / viewed from several aspects when executing: For example during executing it is important to know the behaviour of different modes in a system.</p> <p>The Jade Monitor tool and API provide the raw input that would be used in sophisticated visualisation scenarios.</p> <p>The Monitor's display of information is based on a textual format. With the interfaces between items of data, requiring a user to move between various parts of the interface to get a full understanding of the system performance.</p> <p>Jade Software Corporation are interested in technology that can help to improve the user experience of using Jade Monitor, with a key aspect of this being the use of visualisation tools to improve the display of data to the user. With this information being fed back in to the Jade engine to improve overall performance</p> <p>A project has already been undertaken that has taken Jade data and put it in to visualisation tools and this has provided some useful information. Demonstrating the potential of using visualisation programs and techniques, with this project making use of Treemaps and GGobi, which have both demonstrated the ability to display the Jade structure and performance metrics in a more clear and simple manner.</p> <p>Due to the successful outcomes of this project Jade would like to take the recommendations for future work and build on this project through</p> <ul style="list-style-type: none">• research in to broader range of visualisation techniques and their integration to provide a rich data visualisation solution.• consideration of the writing of a purpose built visualisation tool to be built into the Jade Monitor system, providing both live as well as historical data.• investigation of the format of data extracted from the JADE Monitor and its refactoring for loading into any visualisation program.

Collaborative Research Programme Project Definition (2 of 2)

Potential for Follow On Work:

Dependant on the outcomes of the research, there is the potential of follow on work to build on the findings the research undertaken in this project or to investigate related other related areas.

The short term goal is to understand the opportunities for the use of visualisation techniques within Jade Monitor, with the longer term goal being to implement such solutions within the Monitor.

Anticipated Duration:

The anticipated period for undertaking this project is 12 months, although the industry partner expects continuous engagement with the researchers, in order to make use of findings as early as possible and to transfer knowledge in the subject area to their staff and the WRC.

Project Budget:

\$??

(This is a nominal figure, the actually funding provided will be finalised once the project has been fully scoped.)

Key Dates:

Closing Date for Letter of Interest :	
Notification of Request for Full Proposal :	
Closing Date for Full Application :	
Notification of Award of Project :	

For further information Contact:

Jeremy Reece – Manager Wireless Research Centre	Tel: +64 3 366 7001 ext 7871 Email: jeremy.reece@nzi3.com Addr: NZi3, College of Engineering University of Canterbury Private Bag 4800 Christchurch, 8140
--	--

Appendices

Schedule A – Non-Disclosure Agreement

Schedule B – Intellectual Property Agreement