Research topic

- How to help software architects and designer in creating reliable mental models of the actual execution of the large and complex MRI software.

Method on show

- Identification of sources and techniques to gather high level system execution information.
- Efficient diagrammatic description of the actual runtime system structure and behavior.
- Manage information complexity at the high level and provide detail when needed.

Projected benefits / value

For software architects and designers:
1. Identification of system components and their dependencies at the high level of abstraction.
2. Maintenance and expansion of current mental models about the execution of the system.
3. Understanding of the realization of the current implementation towards the creation of mental models.

For the MRI development organization:
1. Awareness on the impact of changes and fast reaction within the planning of change and maintenance.

Place in Darwin

- Evaluation of alternative sources and techniques to collect execution information.
- Improving diagrammatic representations for navigability and aggregation.
- Evaluation of current vs. recovered knowledge