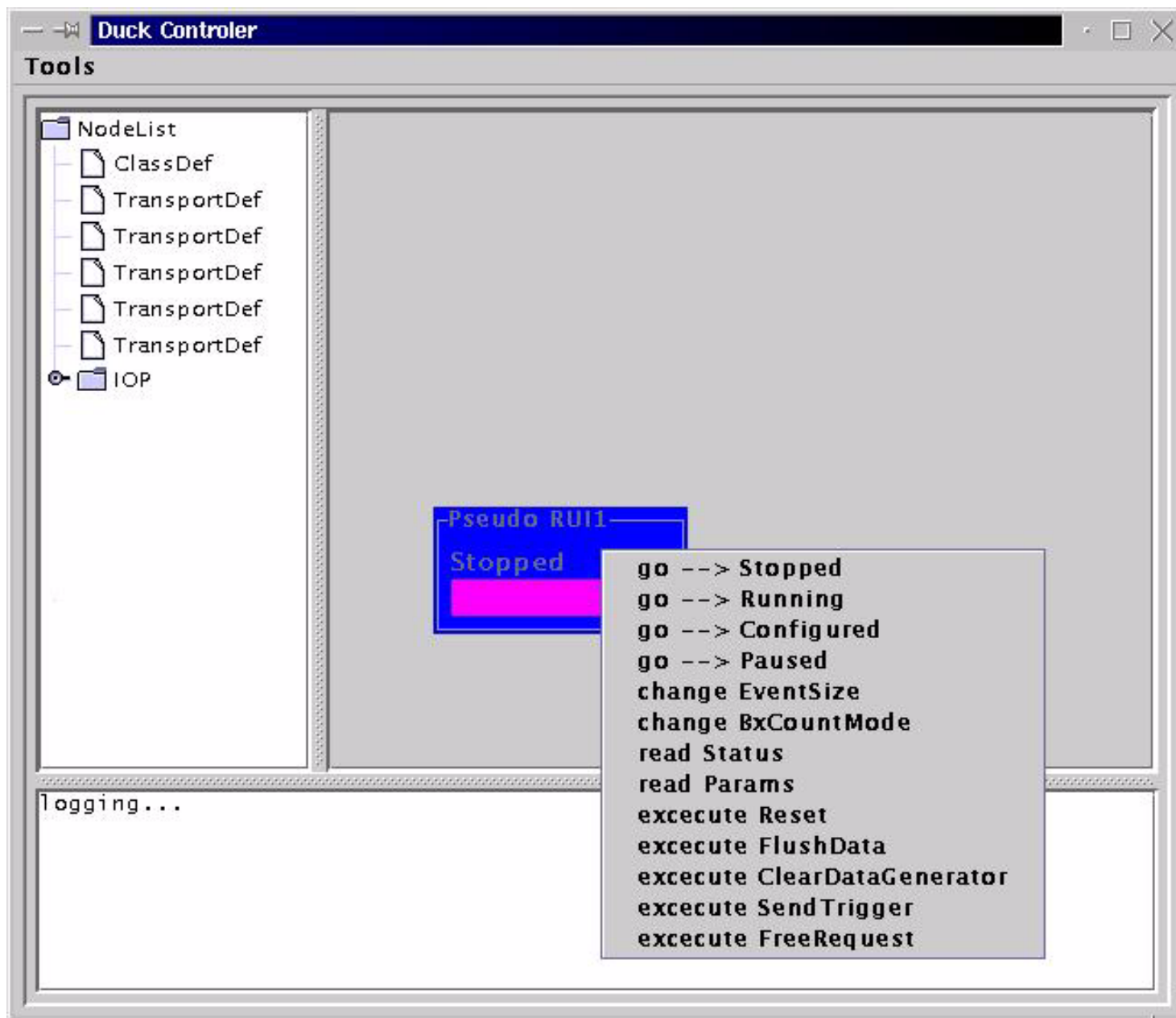


Integration of XDAQ / pseudoRUI

- functionalities of the pseudoRUI
 - on PCI trigger command:
 - generate dummy data of fixed (configurable) size
 - transfer (DMA) event to internal 32MB SDRAM
 - prepare event descriptor (Startaddress, size) and write to Fifo
 - options, features:
 - data are word counts or free running counter
 - fragment size is programmable (but fixed)
 - total reset or “flush data” implemented

Implemented software

- XDAQ application level:
 - class for low level hardware access
 - XDAQ application with SOAP control access
 - all functions can be executed by SOAP commands
 - XDAQ state model and state transitions implemented
- Control software
 - based on JAVA and jxdaq classes
 - can send all possible SOAP commands to pseudoRUI
 - implements XDAQ state model
 - user interface is simple GUI
 - Gui classes are generic:
 - need to program the functionality of his component
 - need to program the actions for state changes
 - the GUI is then generated automatically,



Still to be implemented

- XDAQ i2o application
 - involved in data transfer
 - needs to set up DMA pseudo-RUI --> software RUM
 - DMA and interrupt of Galileo works
 - DMA slower than expected (...as usual...):
 - DMA bursts are even shorter than advertised in manual
 - instead of 64-bytes bursts only 16 - 48 bytes
 - software to interface to RUM under development (with Johannes and Luciano)
(it is the harder part)