ADC
Analog Inputs
Main Program
Shared Memory
Communication Task (Hard RT)

TDC = Time to Digital Converter

RTDM Device Driver for ADC Boards

16 chan
analog inputs
16 chan
clock
trigger

Global Time Information

User Space

Data Acquisition Task ADC board 1 (Hard RT)

Data Acquisition Task ADC board 2 (Hard RT)

Communication Task (Hard RT)

User Space

Main Program Shared Memory

Kernel Space

RTDM Device Driver TDC Board