

# FIT3143 Tutorial Week 4

Lecturers: ABM Russel (MU Australia) and Vishnu Monn (MU Malaysia)

## INTER PROCESS COMMUNICATION

### OBJECTIVES

- The purpose of this tutorial is to introduce IPC and RPC
- Understand the concept of Inter-process Communication
- Understand the concept of Remote Procedure Call

### TOPICS

1. Discuss the three types of failure in IPC.
2. Discuss the pros and cons of one of the three different techniques for implementing concurrent access to multiple servers (threads, early reply, call buffering)
3. Discuss how RPC performance could be improved.
4. You have been asked to architect the software stack for a mobile application that requires running some compute intensive image processing algorithms. Discuss the appropriateness, advantages and disadvantages of either an RPC or IPC based solution.