## The University of Queensland School of ITEE











### The University of Queensland School of ITEE

#### Process-based Concurrent Server Example

 Tuesday's server example to be extended in class







### Pros and Cons of Process Based Designs

- + Handles multiple connections concurrently
- + Simple and straightforward
- Additional overhead for process control
- Nontrivial to share data between processes
  Requires interprocess communication (IPC) mechanisms
- FIFO's (named pipes), shared memory and semaphores Thread based designs
- + Easier to share data between threads (though may need mutexes/semaphores)
- Do have thread overhead

12



# The University of Queensland School of ITEE

