FIT3142 Tutorial #1
Protocols and Inter-Process Communications

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Contents

1 Tutorial Format

Preparation is required for this tutorial. Do not plan to complete the tutorial preparation during the tutorial.

Students should produce written answers to the tutorial questions prior to starting the tutorial.

The answers will be reviewed in a question and answer format during the tutorial. Each student will explain their answer.

Students will need to submit their answers after each tutorial via Moodle [Turnitin].

All questions are based on lecture slides, and lecture slides are in effect the "answer sheets" for these tutorials.

Worked answers **will not be posted after tutorials as the answers are already in the lecture slides**.

2 Tutorial Questions

2.1 Question 1 (25%)

Explain the limitations of *Transmission Control Protocol* in a high throughput networking environment.

2.2 Question 2 (25%)

Compare the *Stream Control Transmission Protocol* and *FastTCP*.

2.3 Question 3 (25%)

Explain the differences between the three basic forms of *Inter-Process Communications (IPC)*. Which cannot be operated over a network, and why?

2.4 Question 4 (25%)

Explain the internal and functional differences between the Berkeley socket scheme, and the AT&T System V STREAMs scheme.