

CITS2002 Systems Programming 2021, 1st Project Marking Sheet

Submission of NGUYEN, THANH (22914578) and LI, YU (21241907)

Marks awarded from manual code inspection:

- Sufficient, clear and descriptive comments; 1 / 2
- Consistent layout and regular indentation of code; 1 / 2
- Choice of meaningful identifier names; 1 / 2
- Reading the cooluxe file into main-memory; 3 / 4
- A single data-structure to represent cache-memory; 3 / 4
- Implementation of each instruction in execute_stackmachine(); 2 / 4
- All reads and writes 'pass through' cache, 2 / 2
- Direct-mapping of each required main-memory address to its cache location, 1 / 1
- A simple strategy for write-back cache, both when reading and writing. 3 / 4

Any other comments:

Please review the sample solution -

<https://teaching.csse.uwa.edu.au/units/CITS2002/projects/runcool-soln.c>

NO Cache initialisation. Lack of comments makes hard to read the strategy for write-back

TOTAL MARKS FROM MANUAL CODE INSPECTION: **17 / 25**

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Marks awarded from compiling submission and running a series of tests:

- Program compiled without warnings or errors 2 / 2
 - Successful - input file does not exist: reports an error, exits with non-zero status 2 / 2
 - Successful - main() function has no return statement; must exit with 0 2 / 2
 - Successful - main() function has: return 3: must exit with 3 2 / 2
 - Successful - main() function just calls: print 12345 2 / 2
 - Successful - main() function prints a fixed string 3 / 3
 - Successful - main() calls a function, which loops from 1 to 20 3 / 3
 - Successful - main-memory-reads executing factorial(), tolerance 30% 3 / 3
 - Successful - main-memory-writes executing Ackermann(3,5), tolerance 30% 2 / 2
 - Successful - cache-memory-hits executing Ackermann(3,5), tolerance 30% 2 / 2
 - Successful - cache-memory-misses executing nestedloops, tolerance 30% 2 / 2
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TOTAL MARKS FROM AUTOMATED TESTING: 25 / 25

PROJECT TOTAL: 42 / 50