

EECE 4903/6903 - Example final projects



■ Network Routing Algorithms

- | Finds the shortest path between two nodes in a multi-node network using 'shortest path first' (SPF) algorithm

■ Cooking with Algorithms

- | Reads and sorts the food item list into memory - when powered. Then, it runs - until no power; displays the choices on a panel

■ Cross-compiler performance

- | Compares Assembly generated by the SDS Cross-Compiler to Assembly written by hand for size, speed, time to write, and debug a standard sorting algorithm

■ MADLIBS

- | Generates random story based on a 'seed' string

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■ Logic Equivalence

- Shows that a Boolean expression created using the AND, OR, NOT operators can be evaluated using only NAND gates. Uses postfix expression on stack.

■ Cache Performance

- Compares speed performance of a processor with and without a local cache

■ Base Converter

- Universal way of converting numbers of various bases to other bases: Can handle any base 2 through 36 (0-9,A-Z)
- Handles values to right of radix point;
- More precision and accuracy