## Network Security Project – Proposal

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## 1 Proposal

To develop an implementation of the Serpent-1 Cipher [3][1] in C and Python.

Both implementations of the cipher shall be constructed using threads to take advantage of the parallelism of the Serpent Algorithm. The number of threads to be used (up to a limit) shall be specified at runtime.

Each implementation shall be cipher-text compatible with each other and also the reference implementations [2].

## References

- [1] Ross J. Anderson. Serpent Home Page. [Online; accessed 26-January-2012]. URL: https://www.cl.cam.ac.uk/~rja14/serpent.html (cit. on p. 1).
- [2] Frank Stajano. Serpent reference implementation. [Online; accessed 26-January-2012]. URL: https://www.cl.cam.ac.uk/~fms27/serpent/(cit.on p. 1).
- [3] Wikipedia. Serpent (cipher) Wikipedia, The Free Encyclopedia. [Online; accessed 26-January-2012]. 2012. URL: http://en.wikipedia.org/w/index.php?title=Serpent\_(cipher)&oldid=469573199 (cit. on p. 1).