

Quadseal is a novel approach to protecting encrypted information from power analysis attack using either software or hardware.

The Technology

Information security is a major concern in today's hyper connected, wireless craving, cloud based society. Ensuring storage of information is secure is key as we increasingly give up physical control of services and devices.

Power analysis attack is a form of hacking which renders your identity vulnerable to third parties and should be of primary concern for everyone, from individuals to organisations and Government. These non-intrusive attacks pose a serious threat to the numerous devices storing private and confidential information.

Any chip or card that does not have a power analysis attack countermeasure is fundamentally insecure; and many of the world's leading security standards now require storage protect against power analysis. In an attempt to better protect encrypted data from power analysis attacks researchers at the University of New South Wales have developed Quadseal.

Key Benefits

- Software or hardware implementation.
- Software: easily added to existing devices.
- Hardware: for greater stability and reduced computational need.
- More robust than current techniques such as physical masking random noise.
- Modulating circuitry to save power and further improve security.
- The only countermeasure which is not vulnerable to statistical analysis.



Applications

- Securing personal information, bank cards, smart cards, SIM cards, Wi-Fi.
- For industry, mobile devices, pay TV, medical devices, secure storage.
- As a service, Secure Cloud Computing, Finance, Entertainment, Internet Service Providers, and Transport.

The Opportunity

NewSouth Innovations is currently looking for partners to further develop the technology for commercial products. Quadseal is patent pending. If your organisation is interested in either licensing the registered IP behind Quadseal, or engaging with the inventors of Quadseal further, please refer to contact details below.

For more information contact:

Daniel Gronowski

Business Development Manager

NewSouth Innovations

T: +61 2 9385 7772 | M: +61 415 044 589

E: d.gronowski@nsinnovations.com.au