Abstract
Rate-based intrusion prevention system is specially designed for rate-based or anomaly-based attack prevention. The IPS is intended to prevent distributed denial-of-service intrusions effectively before it successfully harms the network and other systems, while it is also anticipated to avoid too much false alarm rates. The use of administrative scripts here is also very applicable to capably govern and automate the work of IPS for efficient network security administration.

Snort has been coming up as an open-source intrusion detection and prevention system that is capable of detecting and blocking intrusions, both content-based and rate-based attacks, based upon the set of rules, thus it is widely known as rule-based network IDS/IPS. It is also developed so that it is able to work in inline mode (prevention capability), utilizing the firewall called iptables, which also can be used to set up traffic rate-limiting. SPADE preprocessor then is developed as Snort plugin to have the ability in detecting anomaly intrusion based on statistical approach. SPADE is also designed to detect DDoS as well. For administrative purpose, Perl has been used as a very powerful and flexible scripting language for common tasks of network and system administration.

Combination of Snort Inline and SPADE is actually giving a good potential as rate-based or anomaly-based intrusion prevention system. The technical issues of both integrations still obstruct maximum capability of anomaly prevention. However, result shows that the system is capable of running potent rate-based intrusion prevention operation and all components are working together very well.

Snort is giving good prospective scheme of well-structured open-source intrusion prevention system deployed for organizations. Many applications have been developed to work with Snort. As Snort is software designed for Linux, it is easy to administer the work of Snort system in Linux environment.

Key words
Intrusion prevention system, rate-based, anomaly, Snort, DDoS, Perl scripting language