DDoS attacks are frequent

- **Source:** Arbor Networks
- **Disclaimer:** Arbor sells network security solutions :-)

20,280 anomalies exceeded 1 Gbps in statistics reported to Arbor: one every ~26 minutes!

*Figure 1: Largest DDoS Attack – 49 Gigabits Per Second
Source: Arbor Networks, Inc.*

[Based on survey of network operators]
Types of attacks

Largest Observed Attack Vectors

- Flood-Based (e.g., UDP, ICMP) 45%
- Protocol-Based (e.g., RST, SYN, Frag) 23%
- Application-Based (e.g., URL, GET, DNS, SQL) 26%
- Other 6%

Figure 6: Largest Observed Attack Vectors
Source: Arbor Networks, Inc.

Largest Anticipated Threat – Next 12 Months

- Link, Host or Services DDoS
- Botnets
- Credential/Identity Theft
- DNS Cache Poisoning
- BGP Route Hijacking (Malicious or Unintentional)
- System/Infrastructure Compromise
- Worms

Figure 4: Largest Anticipated Threat – Next 12 Months
Source: Arbor Networks, Inc.

[Based on survey of network operators]