**New Ideas**

**Macroscopic Internet Data Collection and Analysis**

- **Deployment of additional skitter, CoralReef, and NeTraMet monitors**
- **Build prototype model of peering points**
- **Publish macroscopic topology data (Internet Topology Kit)**
- **Develop methodology for identifying critical infrastructure hot-spots, exchange points, and other central resource locations**
- **Develop prototype hyperbolic viewer that can handle a million nodes or more**
- **Make data analysis publicly available (passive, workload, routing) on website**
- **Establish macroscopic topology archive for community access to data**
- **Expand/refine formatting and size/type of data in response to community feedback**
- **Integrate visualization tools with routing tables in real-time, visualize differences**
- **Complete analysis and visualization of Internet core using continuously gathered skitter data**

**Impact**

- **Ability to track and visualize the spread of Internet worms, viruses, and other threats.**
- **Uniquely positioned to provide DARPA and the research community with highly relevant real-world Internet data sets, including active and passive trace data for evolving workload characterization of an OC48 link at a major exchange point.**
- **Collection of path-specific global measurement data useful in analyses relevant to the commercial Internet as well as DoD network operations.**
- **Customized CoralReef passive monitoring tools for use by DoD for both operational and multi-lab/parallel simulation use.**
- **Analyzes results reflect community-held assumptions about Internet dynamics and routing behaviors, and point to new insights and questions.**
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**New Ideas**

- **Use of walrus hyperbolic 3D visualization tool to show traffic anomalies such as high delays or the spread of the CodeRed worm.**
- **Use of Netherlands passive monitoring for the relative importance for Autonomous Systems (AS) seen on a topology sample.**
- **Analysis results show over two million measurements of DNS root and gtld nameservers on a daily basis.**
- **Analysis results reflect community-held assumptions about Internet dynamics and routing behaviors.**
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**Macroscopic Internet Data Collection and Analysis**

- **Use of NeTraMet passive monitors from several sites to track DNS root and gtld nameservers on a daily basis.**
- **Analysis results reflect community-held assumptions about Internet dynamics and routing behaviors.**
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