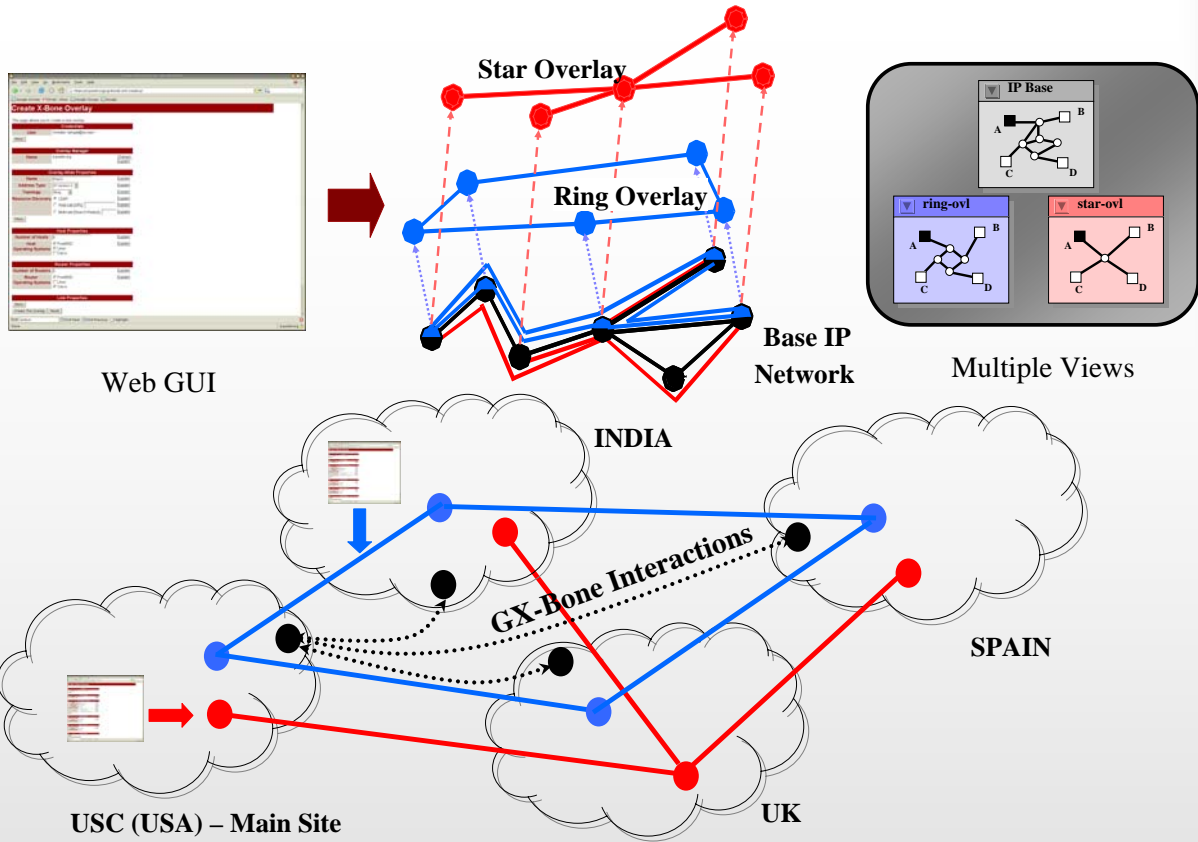




Information Sciences Institute

The GX-Bone

Worldwide Network Testbed



Virtual Hosts on a Virtual Network

- Dynamically deployed world-wide
- User-selected host and topological props.
- XML/GUI Interface
- Scalable experiments
- Support for custom kernel extensions

Global Infrastructure

- Persistent nodes at participating sites
- Hardware flexibility
- Decentralized, fine-grained and easy mgmt
- Secure and safe: deployment and experiments
- Automatic global coordination

Components

- X-Bone: Overlay deployment
- NetFS: Fine-grained access control
- DataRouter: App-directed forwarding
- Virtual Hosts: VServers, Jails
- Kernel Extensions: KLM, Netgraph
- Custom hierarchical registry

Features:

- Linux/FreeBSD/ Cisco, IPv4/v6, Dynamic Routing, QoS, IPsec, LDAP

Status: X-Bone 3.2 for GX-Bone