Pictures at SERE 2014

Day 2 (July 1)
Requirement Items

- Function: $F_i$
- Date Resource: $D_i$
- Constraint: $C_i$

- Informal Specification: $S_i = (F_i, D_i, C_i)$
Our Solution:
Light-weight Resource Pool

- RVL: a light-weight resource virtualization tool
  - Virtualizes various resources system-wide
  - Provides a consistent virtual view on top of various resources
  - High compatibility with real-world applications
single host, and attempts on other internal hosts

promised host takes some

ter focuses on pivots (being stealthy or IPv6)

efficiently bound the number compromise assessment
ments, exploits which we are normal privilege
Conclusion

- Dynamic forward slices can be surprisingly inaccurate—more than what researchers and developers would expect.
- Inaccuracy can vary considerably.
- Future work:
  - Study how user understanding of thickness
  - Study how user perception of thickness a year
  - Study how user understanding of thickness a year
Testing Apps

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- Estimated MHD: 175
- Estimated STD: 20

Legend:
- Estimated MHD: Minimum Healthy Duration
- Estimated STD: Standard Deviation
Conclusions and Questions

- Network taint analysis
  - is tractable on large networks
  - can partition between “safe” and “unsafe” hosts
  - can prioritize evaluation based on taint distance
  - (if you take into account homogeneous hosts)
  - dynamic security perimeter conceptualization can further bound hosts to be investigated
All the pictures will be available at the SERE 2014 Conference Website http://paris.utdallas.edu/sere14 after July 4th.