What is Workload vs. System Characterization?
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- **Workload:**
  - Cacheability of Web requests
  - Degree of Web pages’ in-link
  - Size of P2P objects

- **System:**
  - Internet path inflation
  - Characteristics of P2P hostss
UW Study
Distribution of Heavy-hitters (1/4)

A small group of heavy-hitters represent a significant part of the total traffic.

Figure 11: Cumulative distribution of traffic volume of heavy-hitters in decreasing order of volume.

Slide from Li-Ming Chen
Miscellaneous

• Web caching has become irrelevant
  – 1 AVI download == 2 Web users browsing for 1 year!!!

• Internet pipes are carrying the same bytes over and over and over again
  – Many pipes are carrying bytes of “007 Casino Royale!!!” as we speak

• Long flow management
  – Congestion control schemes differentiating long vs. short flows
  – Garbage collection of long flows? How?