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IP Service Model

The Hour-glass Design

- Observation:
 - » The internetworking layer can provide a service only if service supported by <u>each</u> underlying physical network

• Approach:

» For supporting heterogeneity in underlying technologies, make the IP service model extremely simple

• Best-effort datagram delivery:

- » Packets may be lost
- » Packets may be delivered out of order
- » Duplicate copies may be delivered
- » Packets can be delayed for a long time

Ability of IP to run over anything is its greatest strength !

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