

# Hybrid Optical Network Architectures: Bringing Packets and Circuits Together



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## Overview



- Discuss 3 classes of Hybrid Optical Network
  - Client-Server
  - Parallel
  - Integrated
- Discuss & compare some examples of HON

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## Introduction (1)



- Definition of *hybrid*
  - “An optical network architecture is called hybrid if it combines two or more basic network technologies at the same time.”
- In this context, network technologies refer to packet/burst switching, wavelength, waveband, and fiber switching.
- OBS and fast wavelength switching are not hybrid

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## Introduction (2)



- Why do we need hybrid?
- Get the best of both worlds
  - Circuit switching offers low latency, higher throughput
  - Packet switching offers highly dynamic, better bandwidth efficiency
- Question about scalability

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