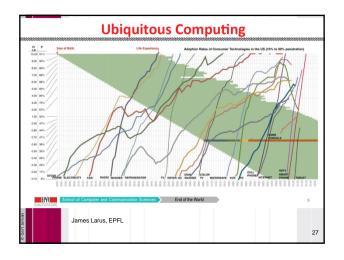
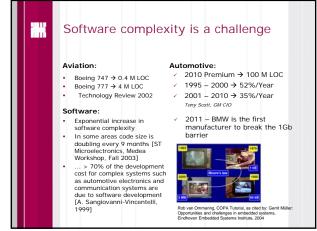
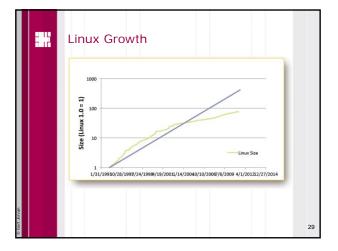


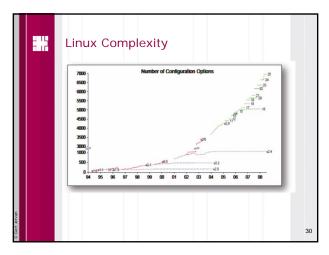
IIK	Product Technica	al Tre	nds		
	Operating temperature, *C Supply voltage Max. power (high perf.) No. of package types Design support life Production life <u>Service life</u>	<u>1990</u> -55 to 125 5v ≤10 >10 yrs. >10 yrs. >20 yrs .	2000 -40 to +85 1.5v 100 <60 1-5 yrs. 3-5 yrs. 5-10 yrs.	2010 0 to 70 0.6v 170 ?? <1yr. <3yrs. < <u>5yrs.</u>	
			*MRC	QW-2002, Bernstein	25

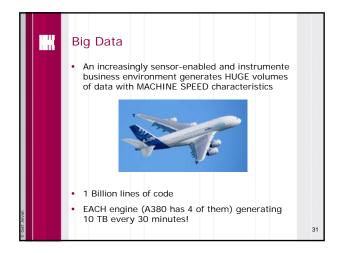
	Year	Global Internet Traffic
	1992	100 GB/Day
	1997	100 GB/Hour
	2002	100 GB/Sec
	2007	2 000 GB/Sec
	2012	12 000 GB/Sec
	2017	35 000 GB/Sec
Cisc	o VNI, 2013	

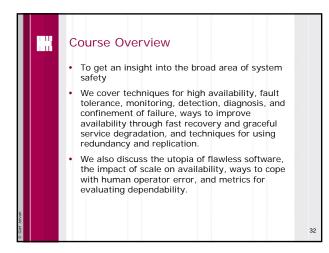


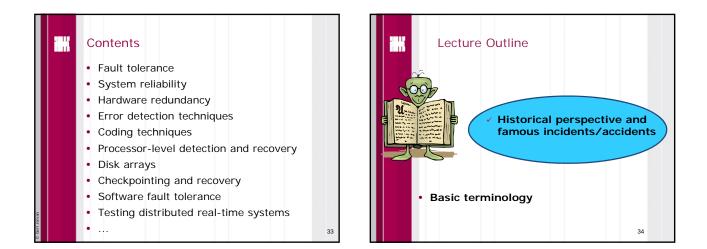


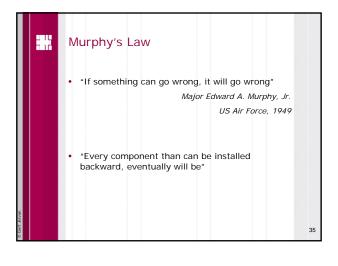


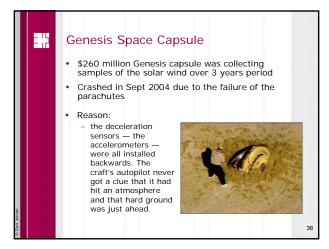












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Mars Orbiter	Lockheed Martin Titan 4
 One of the Mars Orbiter probes crashed into the planet in 1999. It did turn out that engineers who built the Mars Climate Orbiter had provided a data table in "pound-force" rather than newtons, the metric 	 In 1998, a LockMart Titan 4 booster carrying \$1 billion LockMart Vortex-class spy satellite pitched sideways and exploded 40 seconds at liftoff from Cape Canaveral, Fla. Reason: frayed wiring that apparently had not
measure of force. • NASA flight controllers at the Jet Propulsion Laboratory in Pasadena, Calif., had used the faulty table for their navigation calculations during the long coast from Earth to Mars.	been inspected. The guidance systems were without power for a fraction of a second.

