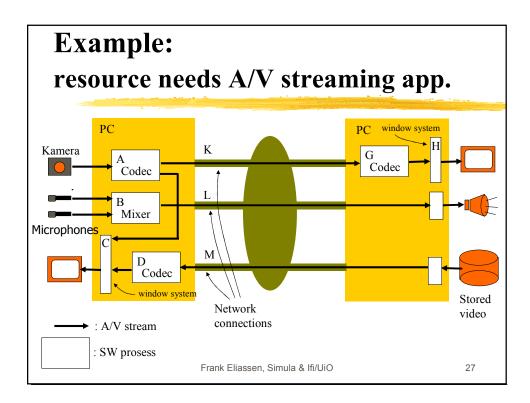
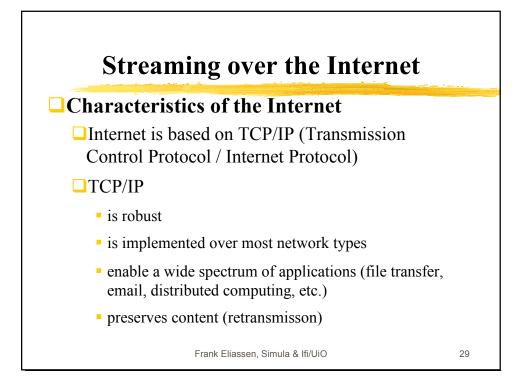
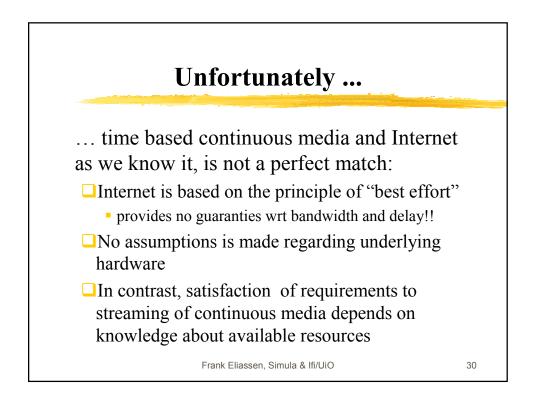


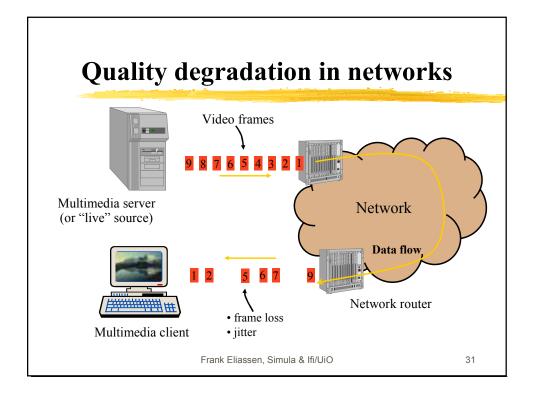
QoS categories	Ex. QoS-dimentions for stream interaction	Ex. QoS-dimentiones for discrete interaction
Timeliness	End-to-end delay, max allowed jitter	End-to-end delay per interaction
Volume	Observed throughput as frames per second	Observed throughput as bytes per second
Reliability	% frame loss, bit error rate per frame	bit error rate in individual interactions

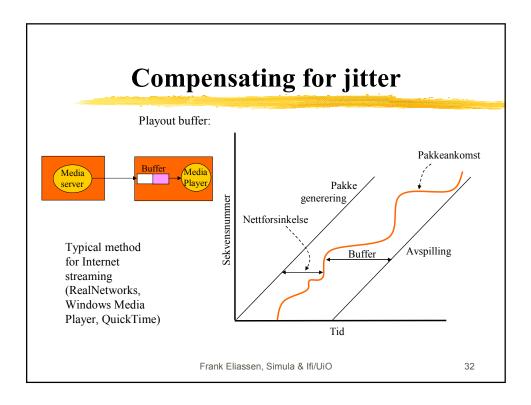


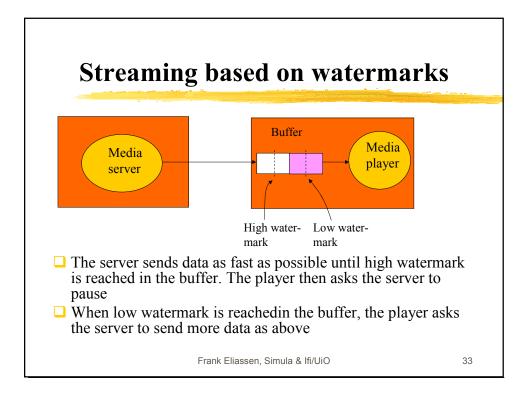
Example (cont'd): Resource needs										
Component	Bandwidth	Latency	Loss rate	Resource needs						
Camera	Out: 10 frames sec/raw video 640x480x16bits		Null							
A Codec	In: 10 rammer sec/raw video Out: MPEG-1 stream	Interactive	Low	10 ms CPU every 100 ms 10 Mbyte RAM						
B Mixer	In: 2x44 Kbits/sec audio Out: 1x44 Kbits/sec audio	Interactive	Very low	1 ms CPU every 100 ms 1 Mbyte RAM						
H Vindow- system	In: variabelt Out: 50 frames/sek framebuf.	Interactive	Low	5 ms CPU every 20 ms 5 Mbyte RAM						
K Network connection	Inn/ut: MPEG-1 stream ca. 1.5 Mbits/sec	Interactive	Low	1.5 Mbits/sec, stream prococol w/low loss rate						
L Network connection	Inn/ut: Audio 44Kbits/sek	Interactive	Very low	44 Kbits/sec, stream protocol w/ very low loss rate						
	Frank Elias	sen, Simula &	lfi/UiO	28						

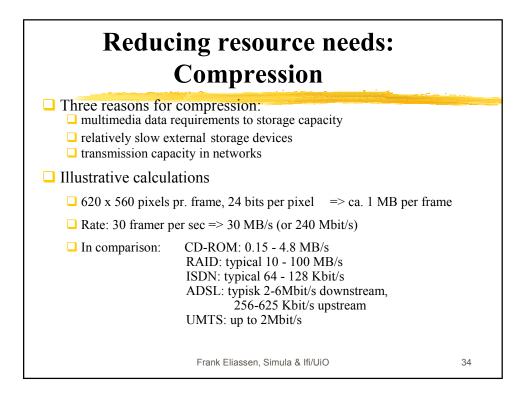


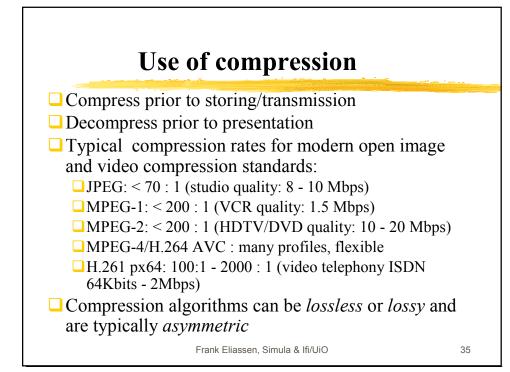


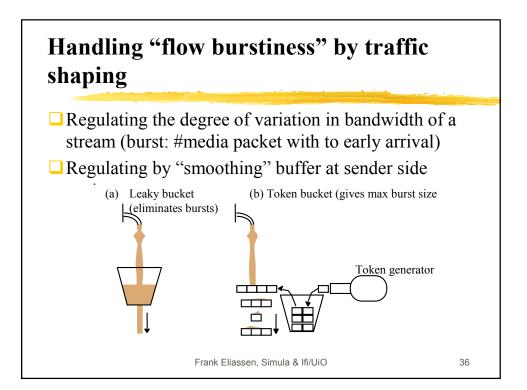


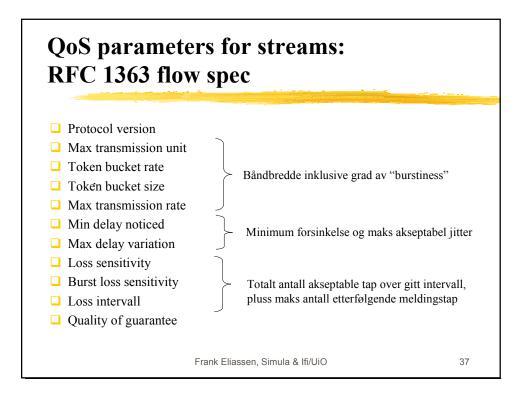


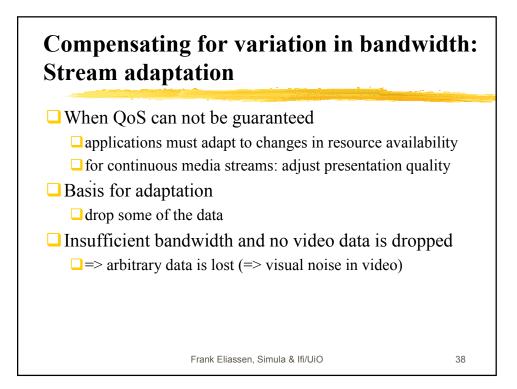


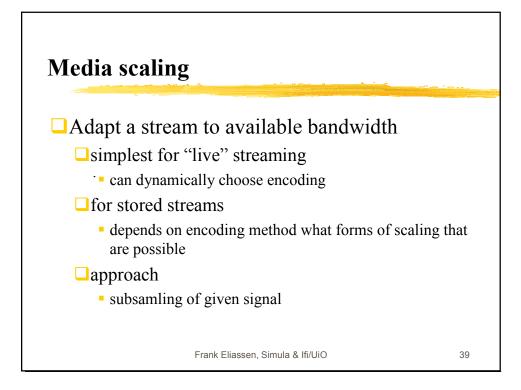


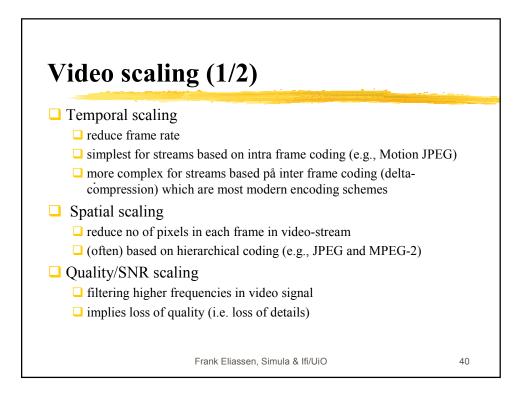


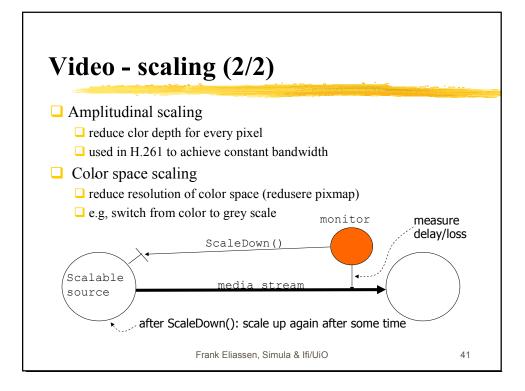


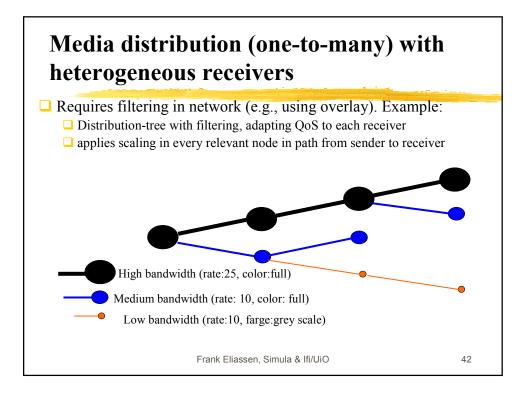


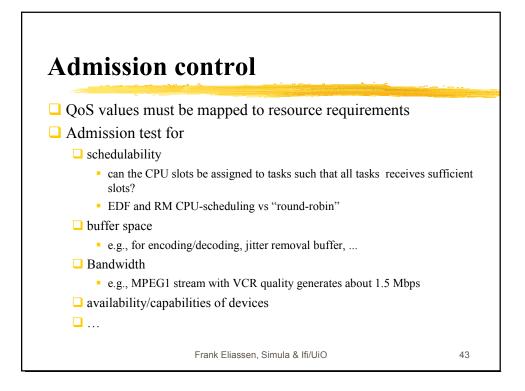


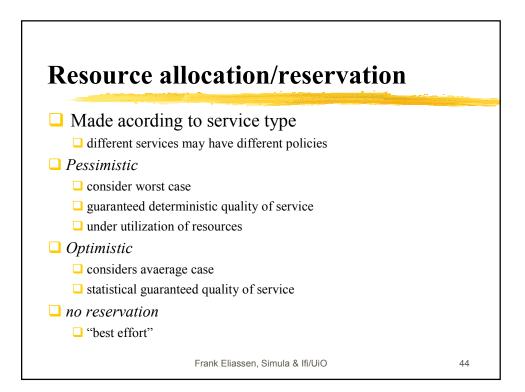


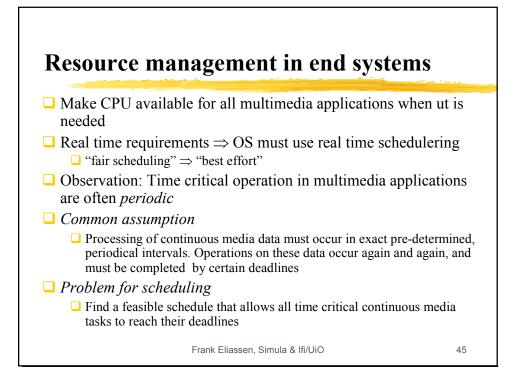


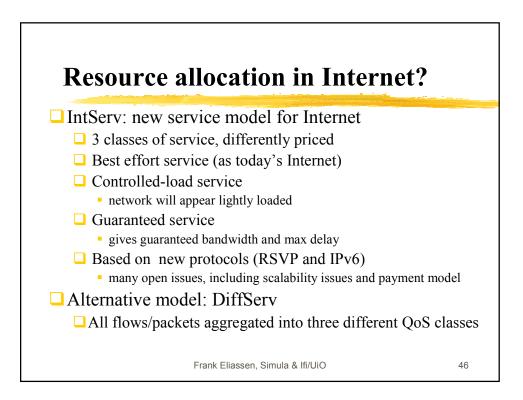


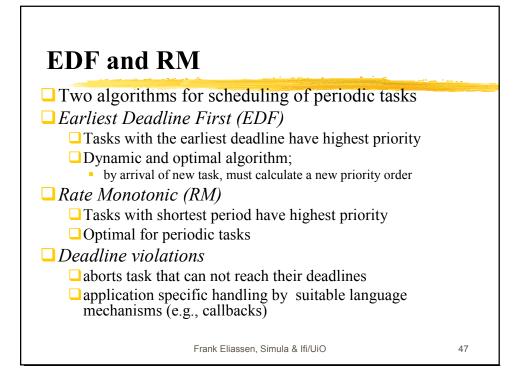












EDF	VS .	RM					
	11	dA d2 d	13	dB d4	d5	dC d6	
High rate	2	3	4	5	6	7	
Low rate	 	В		С	 	D	
EDF	1 1 1 2	3 B	4	5 0		7 D	
Rate monoton	nic 2 A	3 B	4 B	5 C	6 6 7	7 D	time
			Frank El	liassen, Sim	ula & Ifi/Ui0	D	48

