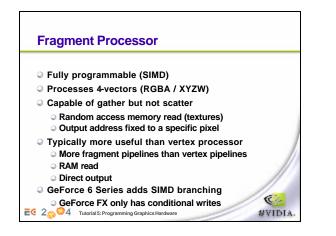
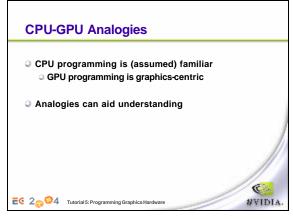
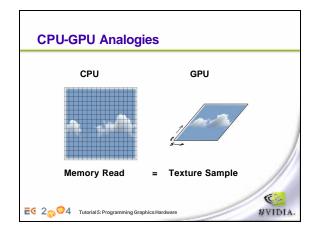
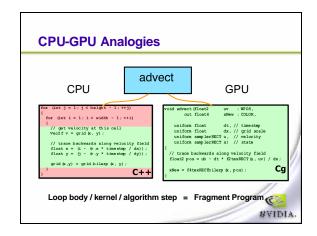


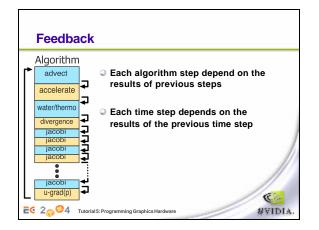
Vertex Processor	
Fully programmable (SIMD / MIMD)	
Processes 4-vectors (RGBA / XYZW)	
Capable of scatter but not gather	
Can change the location of current vertex	(scatter)
Cannot read info from other vertices (gather control of the second se	er)
Small constant memory	/
New GeForce 6 Series features:	11
Pseudo-gather: read textures in the vertex	a program 🏼
MIMD: independent per -vertex branching,	early exit
	0
EG 2004 Tutorial 5: Programming Graphics Hardware	WVIDIA.

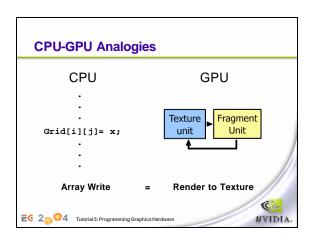


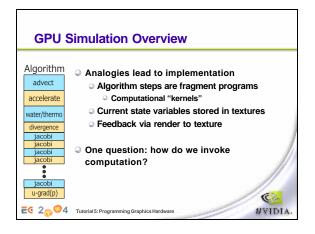


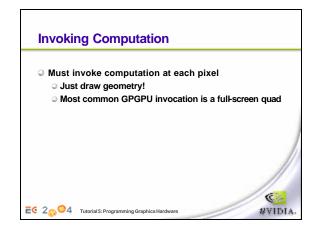


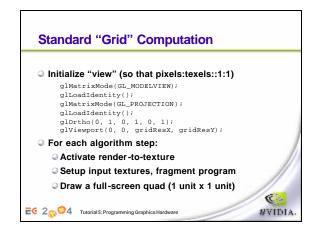


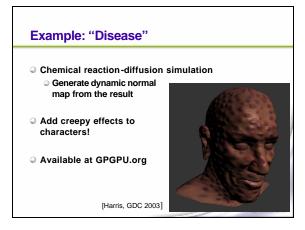


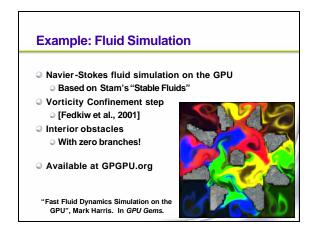


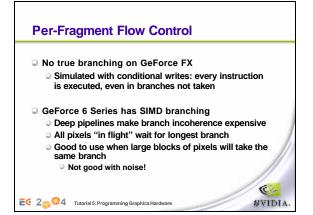


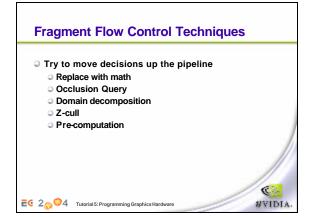


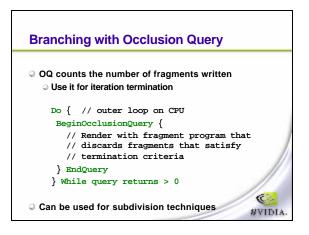


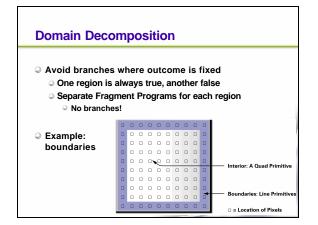


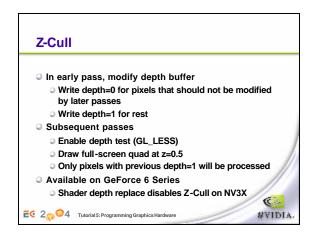


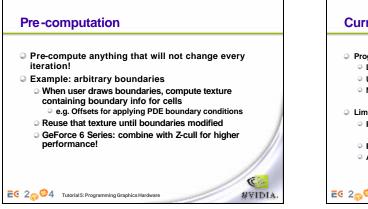


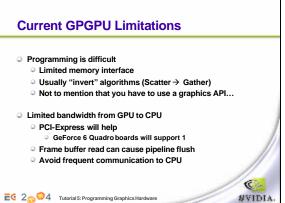










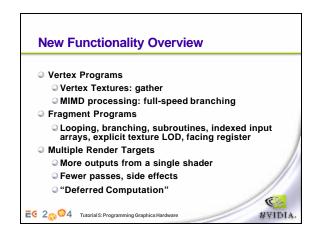


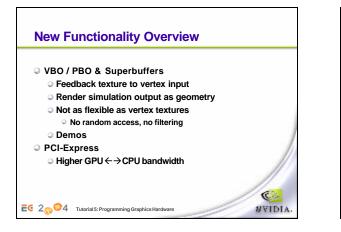


- A step in the right direction
 Moving away from graphics APIs
- Stream programming model
 - enforce data parallel computing: streams
 - o encourage arithmetic intensity: kernels
- C with stream extensions
 - Cross compiler compiles to HLSL and Cg
 - GPU becomes a streaming coprocessor
- See SIGGRAPH 2004 Paper and
 - http://graphics.stanford.edu/projects/brook
 - http://www.sourceforge.net/projects/brook

C?

SVIDIA







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