



Understanding Dynamic Flow Control

- Dynamic Flow Control is the *essential* feature of Shader Model 3.0 (and 4.0) & GLSL
- Ability to loop or branch within a pixel shader
 - Branch comes from temporary register
 - Loop iteration comes from integer constant
- Dynamic vs static branching
 - Different beasts, leading to different results
- DFC enables a different code path to be executed
 - Allows more intuitive shader writing
 - E.g. two-sided lighting, LOD-based branching, etc.
- DFC allows skipping of instructions
 - This is where the performance savings are!
 - But there are conditions...

