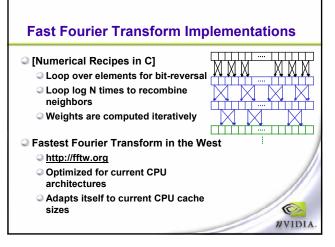
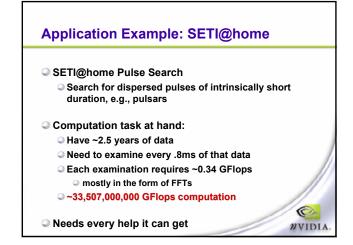
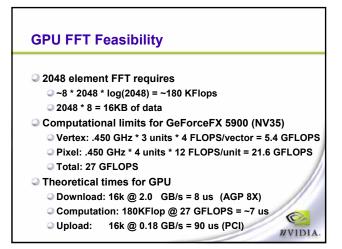
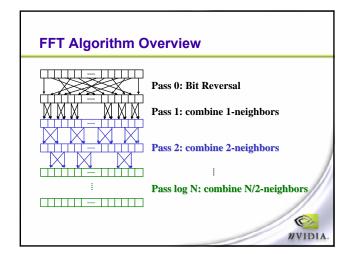


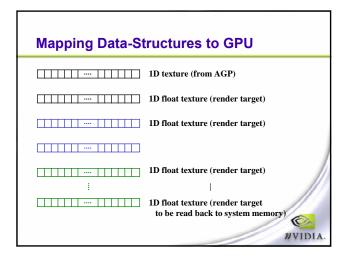
## Solving Fourier Transforms As matrix equation: $H_n = \sum_{k=0}^{N-1} W^{nk} h_k$ $H = W \cdot \hat{h}$ $O(N^2) \text{ operations}$ Recursive (Fast Fourier Transform): $F_k = \sum_{j=0}^{N-1} e^{2\pi i j k/N} f_j$ $= F_k^e + W^k F_k^o$ $O(N \log N) \text{ operations}$

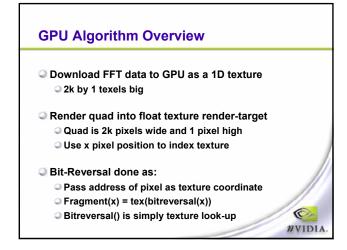


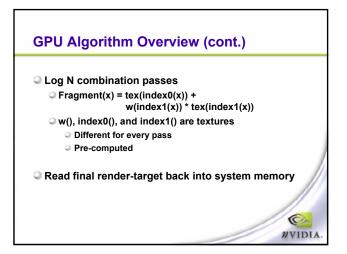


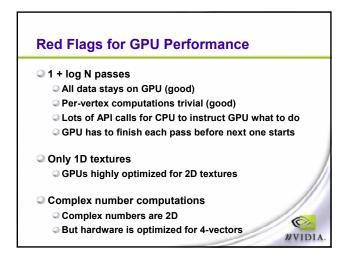


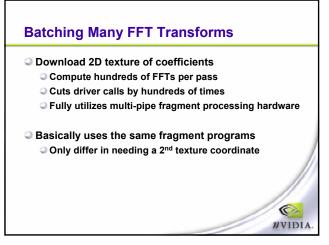


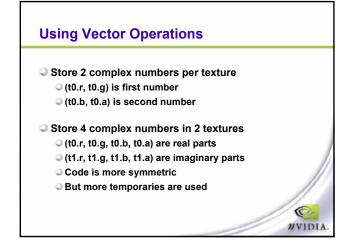


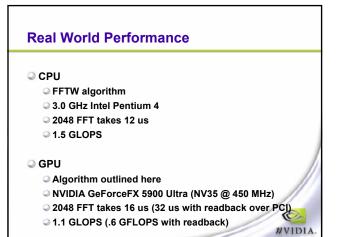


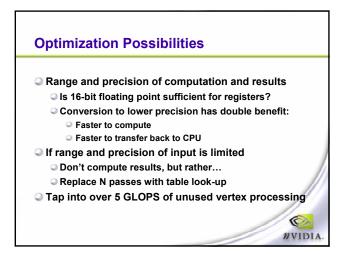


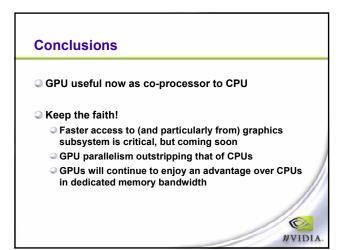


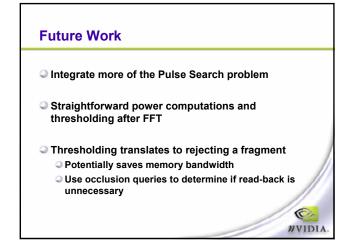


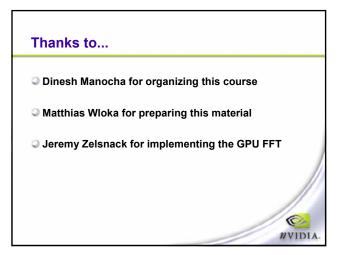












## Questions, Comments, Feedback? John Spitzer, spit@nvidia.com http://developer.nvidia.com