

1. Image processing library
2. 1D or 2D FFT implementation
3. Image or other signal processing in the frequency domain using cuFFT
4. Video / image encoding
5. Path tracing
6. Cryptography
7. Physical simulations
8. Graph algorithms
9. Database operations using GPU (join, sort, group, ...)
10. Molecular docking
11. Weather forecast
12. Text processing (search, regular expressions)

These topics serve as a guidance, feel free to specify them more exactly or come up with your own ideas.