The diagram compares execution times of three different implementations: original serial implementation, optimized serial implementation, and parallel GPU implementation. The number of bases is plotted on the x-axis, while execution time is plotted on the y-axis.

- The original serial implementation is represented by red crosses (+).
- The optimized serial implementation is represented by green crosses (x).
- The parallel GPU implementation is represented by blue asterisks (*).

The lines on the graph represent theoretical execution times:
- $c_1 n^3$ (red dashed line)
- $c_2 n^3$ (green dashed line)
- $c_3 n^3$ (blue dashed line)

The graph shows a logarithmic scale for both axes, indicating that the execution times increase significantly with the number of bases for all implementations, with the parallel GPU implementation being the fastest.