BLAST

Heuristic method for local alignments through searches of high scoring segment pairs

- Seeding

  - ATGCTA

  - make all possible groups of three

    - ATG TGC GCT CTA

  - BLASTN - word size 11

    - Lookup table size 4^11

    - all different types of variables

      - AAAA

      - AAAT

      - AAAC

      - etc.

    - Preprocess the database of locations

      - we go to the location listed for the short string

    - Brute force
- searching
- extending in both directions
- find the triplet pairs

Use stream loop 128

break it up

do a parallel add

produce one 32-bit output

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