matrix_multiply

```
matrix_multiply ( part_of_a, part_of_b,
    part_of_c )

    if ( part_of_a and part_of_b and
        part_of_c  small enough )
        // actually access matrix element data
        compute product

    else

        // bookkeeping only (does not access matrix
                                element data)

        // left branch in recursion tree
        matrix_multiply ( part_of_a',
            part_of_b', part_of_c');
        // right branch in recursion tree
        matrix_multiply (part_of_a",
            part_of_b", part_of_c");
```

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