This library, number 1538, name EXMATH, is an update of Francisco Saenz' programme for the 48G series, now modified to work on 48gII, 49G, 49g+ & 50g.

There are 3 versions for the various models:

49G, OS 1.19-6 uses EXMAT196.LIB Size 6867.5 CkSum 3DA0

49G, OS 2.10-7 EXMATH49.LIB Size 6867.5 CkSum 3DA0

48gII, OS 2.08 EXMATH49.LIB

49g+ & 50g OS 2.10-7 EXMAT50g.LIB Size 6890 CkSum B2B5

The two 49G versions are NOT the same.

Some functions have been added, mostly their names will be self-explanatory.

The function **BEST** takes two arguments from the stack

Number G with fractional part

Maximum denominator H of fractional approximation

& returns the answer

integer numerator

integer denominator

in stack levels X & Y, this being the best approximation to G below denominator H.

I believe the original for this programme was written by the ubiquitous Joe Horn.

The two functions **P159** (Ramanujam's method) & **P261** (Euler) return the number of partitions for integer input, the first more quickly & less accurately for large values of input.

**CHANGES IN KEYBOARD ACTIVATION**

1. Entering numbers is now accomplished through

Right Shift F1

which then demands a mantissa & then an exponent.

1. Exit from Exmath through

Right Shift F6.

1. SWAP is allocated to

Right Cursor Key.

Francisco Saenz' original documentation is included, operation is as he describes with above exceptions.

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