

POTT: J.L \$65100ADE

magic

```

FMOVE.MX FP5-FP7, -(SP)
           0   2   ←

```

← bogus conserve

x^2
 x

```

FMOVECR #B32, FP5 1

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```

FMOVE FP0, FP2

```

```

FMOVE FP1, FP3

```

```

FSUB FP5, FP6

```

$q-1 = FP6 + iFP7$

```

FSCALE FP5, FP2

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```

FSCALE FP5, FP3

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$FP2 + iFP3 = 2x$

```

FADD FP6, FP2

```

```

FADD FP7, FP3

```

```

FSUB FP5, FP2

```

$2x + q - 2 = FP2 + iFP3$

repetit
MANDI

```

FMOVE FP0, FP4 a

```

calcul de $x^2 + q - 1$

```

FMUL FP1, FP4 ab

```

```

FMUL FP0, FP0 a2

```

```

FMUL FP1, FP1 b2

```

```

FSCALE FP5, FP4 2ab

```

```

FSUB FP1, FP0 a2 - b2

```

```

FADD FP7, FP4

```

```

FADD FP6, FP0

```

$x^2 + q - 1 = FP0 + iFP4$

```

FNEG FP3

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Inverse $2x + q - 2$

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FMOVE FP2, FP6

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FMOVE FP3, FP7

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FMUL FP6, FP6

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```

FMUL FP7, FP7

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```

FADD FP6, FP7

```

```

FDIV FP7, FP2

```

```

FDIV FP7, FP3

```

$FP2 + iFP3 = \frac{1}{2x + q - 2}$

multiplier $\begin{pmatrix} FP0+iFP4 \\ a \quad b \end{pmatrix} \begin{pmatrix} FP2+iFP3 \\ c \quad d \end{pmatrix}$

repite
cpcmul

FMOVE	FP4, FP1	b
FMUL	FP3, FP4	bd
FMUL	FP2, FP1	bc
FMUL	FP0, FP3	ad
FMUL	FP2, FP0	ac
FADD	FP3, FP1	ab+bc
FSUB	FP4, FP0	ac-bd

repite
a domus

calcul

$$\left(\frac{x^2+q-1}{2x+q-2} \right)^2$$

$\underbrace{\hspace{10em}}_{FP0+iFP1}$

FMOVE	FP0, FP4	a
FMUL	FP1, FP4	ab
FMUL	FP0, FP0	a ²
FMUL	FP1, FP1	b ²
FSCALE	FP5, FP4	2ab
FSUB	FP1, FP0	a ² -b ²
⊗ FMOVE	FP4, FP1	
FMOVEM.X	(SP)+, FP5-FP7	

RTS