

$$\textcircled{1} \text{ si } \{A0^e\} = P/q$$

$$\text{Pose } \frac{\text{INT}(\sqrt{P})}{\text{INT} \sqrt{q}} = \{A2^d\}$$

si exact $D4=0$
si approx: $D4 \neq 0$

```
SQRT2: BTST #5, (A0)
        BEQ  SQRT1          → case enter
        BSR  XLNHO
        MOVE.L A0, A1
        ADD  D0, A1
        MOVE.L A1, -(SP)
        BSR  SQRT1
        MOVE.L (SP)+, A0
        MOVEM.L D4/A2, -(SP)
        !
        BSR  SQRT1
        MOVE.L A2, A1
        MOVE.L 4(SP), A0
        OR   D4, 2(SP)
        BSR  XDIVS2
        MOVEM.L (SP)+, D4/A0
        MOVE.L A0, A1
        BSR  XLB76
        MOVE.L A1, A2
        RTS
```