133 INSTRUCTION CP 3 CP 4 CP 5 CP 6 CP 7
167 INSTRUCTION CP 3 CP 4 CP 5 CP 6 CP 7 CP 9/HOLD

CP 9/HOLD

166,167 INSTRUCTIONS
VECTOR RECIPROCAL
AND SQUARE ROOT
APPROXIMATIONS

IVD
JA VIA WA

CP 3 — QDA → CP 4 QDB → CP 5 QDC → CP 6 QDD → CP 7 QDE → CP 8 QDF

FUNCTIONAL UNIT ENABLE
VECTOR LENGTH CONTROL
(167)

IUA / JB

CP 8 QGA

HOLD FOR VL

MODE BIT j
f FIELD 2^0

IVE
JA VIA WA

CP 3 QEA → CP 4 QEB → CP 5 QEC → CP 6 QED → CP 7 QEE → CP 8 QEF

167

132,133 INSTRUCTIONS
SCALAR RECIPROCAL
AND SQUARE ROOT
APPROXIMATIONS

IVB
JA VIA WA

CP 3 QBA → CP 4 QBB → CP 5 QBC → CP 6 QBD

133

QPD

OMD

(1)
RA

GATE SQUARE ROOT
HARD ROUND
(133,167)

GATE SQUARE ROOT HARD ROUND IS USED
TO TELL THE RA MODULE THAT A RECIPROCAL
SQUARE ROOT APPROXIMATION INSTRUCTION
HAS ISSUED. THE RA MODULE WILL LOOK
AT HIS BITS OF THE k OPERAND TO SELECT
THE HARD ROUND BITS AND SEND THEM TO
THE MC AND MD MODULES WHERE THEY ARE
ADDED TO THE PYRAMID ADDITION PROCESS.

B-2384 A

ME MODULE GATE SQUARE
ROOT HARD ROUND