240 femtojoules (fJ)

per bit per mm

310 pJ

2 GHz

6.5 pJ

1.8 pJ

150 pJ

115 fJ/bit/mm

150 fJ/bit/mm

200 pJ

Table 1. Technology and circuit projections for processor chip components.

Frequency target	1.6 GHz	2.5 GHz
Double-precision fused-multiply	50 picojoules (pJ)	8.7 pJ
add (DFMA) energy		
64-bit read from an 8-Kbyte	14 pJ	2.4 pJ
static RAM (SRAM)		

Wire energy (per transition)

Wire energy (256 bits, 10 mm)