Specified Loop Unrolling

Benchmark	Unrolling	DFG Size
MM	1× 5 ×100	750
FIR	50×50	2500
SE	16× 16 × 3 ×3	9720
KM	125 × 4 ×2	5768

Resource Constraints

RAMB36	140
DSP48	220
LUT	53200
FF	53200

Supported Operation Set

Type	Opcode	Expression
MULADD	0001	Dst = Src0 x Src1 + Src2
MULSUB	0010	Dst = Src0 x Src1 - Src2
ADDADD	0011	Dst = Src0 + Src1 + Src2
ADDSUB	0100	Dst = Src0 + Src1 - Src2
SUBSUB	0101	Dst = Src0 - Src1 - Src2
PHI	0110	Dst = Src0 ? Src1 : Src2
RSFAND	0111	Dst = (Src0 >> Src1) & Src2
LSFADD	1000	Dst = (Src0 << Src1) + Src2
ABS	1001	Dst = ABS(Src0)
GT	1010	Dst = (Src0 > Src1) ? 1 : 0
LET	1011	Dst = (Src0 <= Src1)? 1 : 0
ANDAND	1100	Dst = (Src0 & Src1) & Src2