

(Brooks)

Scheme:

No immediate index modif.  $w > 19$  bits  $\rightarrow$  div index mod gets  
1 more bit

All index mod. instr. are indexable and take 1/2 wd.

Four bit index addr.

All index modif. values are full wd  $\rightarrow$  direct index mod. gets a 2nd bit.

All present direct index mod. ops.

New index mod. ops.

15	8	13	1	load $\frac{L}{R}$ II from R(A)/L(A)	9.	Incr. II by C(A) & Ct/not	C
16	17	14	2	Store $\frac{L}{R}$ II at R(A)/L(A)	10.	Incr. C(A) & compare	L
		19	3	Comp L II w L(A)/R(A)	11.	Comp II & Reset	R
		20	4	Add	12.	Ct & Br. C(A) & Reset	R
		21		Sub			
		18		Incr & Br to C(A) $\triangleright$			

(32 max can be done)

In  
MISC.  
format

Load I L immed.	(A)
IR "	(A)
Add IL "	A
IR "	A
Sub IL "	A
R "	"
Comp IL "	A
R "	"

All ops with sign mod. 6.91%

Other { 8.4% Static  
7.3 dyn.  
2.5 time