

Convenience Macros

We augment the basic β instruction set with the following macros, making it easier to express certain common operations:

Macro	Definition
BEQ(Ra, label)	BEQ(Ra, label, R31)
BF(Ra, label)	BF(Ra, label, R31)
BNE(Ra, label)	BNE(Ra, label, R31)
BT(Ra, label)	BT(Ra, label, R31)
BR(label, Rc)	BEQ(R31, label, Rc)
BR(label)	BR(label, R31)
JMP(Ra)	JMP(Ra, R31)
LD(label, Rc)	LD(R31, label, Rc)
ST(Rc, label)	ST(Rc, label, R31)
MOVE(Ra, Rc)	ADD(Ra, R31, Rc)
CMOVE(c, Rc)	ADDC(R31, c, Rc)
PUSH(Ra)	ADDC(SP, 4, SP) ST(Ra, -4, SP)
POP(Rc)	LD(SP, -4, Rc) SUBC(SP, 4, SP)
ALLOCATE(k)	ADDC(SP, 4*k, SP)
DEALLOCATE(k)	SUBC(SP, 4*k, SP)