

BLITZ Instruction Set – Alpha List

Op Code (decimal) (hex)	Instruction	Format	Priv Inst	Condition Codes	
72	48				
73	49				
168	A8				
169	A9				
128	80	add	Ra,data16,Rc	E	X
96	60	add	Ra,Rb,Rc	D	X
136	88	and	Ra,data16,Rc	E	X
104	68	and	Ra,Rb,Rc	D	X
137	89	andn	Ra,data16,Rc	E	X
105	69	andn	Ra,Rb,Rc	D	X
162	A2	be	data24	F	
66	42	be	Ra+Rc	C	
166	A6	bg	data24	F	
70	46	bg	Ra+Rc	C	
167	A7	bge	data24	F	
71	47	bge	Ra+Rc	C	
177	B1	bic	data24	F	
81	51	bic	Ra+Rc	C	
176	B0	bis	data24	F	
80	50	bis	Ra+Rc	C	
164	A4	bl	data24	F	
68	44	bl	Ra+Rc	C	
165	A5	ble	data24	F	
69	45	ble	Ra+Rc	C	
173	AD	bnc	data24	F	
77	4D	bnc	Ra+Rc	C	
163	A3	bne	data24	F	
67	43	bne	Ra+Rc	C	
172	AC	bns	data24	F	
76	4C	bns	Ra+Rc	C	
179	B3	bpc	data24	F	
83	53	bpc	Ra+Rc	C	
178	B2	bps	data24	F	
82	52	bps	Ra+Rc	C	
175	AF	bsc	data24	F	
79	4F	bsc	Ra+Rc	C	
174	AE	bss	data24	F	
78	4E	bss	Ra+Rc	C	
171	AB	bvc	data24	F	
75	4B	bvc	Ra+Rc	C	
170	AA	bvs	data24	F	
74	4A	bvs	Ra+Rc	C	
160	A0	call	data24	F	
64	40	call	Ra+Rc	C	
3	03	cleari		A	X
5	05	clearp		A	X
7	07	clears		A	X
2	02	debug		A	
10	0A	debug2		A	
131	83	div	Ra,data16,Rc	E	X
99	63	div	Ra,Rb,Rc	D	X
94	5E	fabs	Fa,Fc	C	
116	74	fadd	Fa,Fb,Fc	D	
91	5B	fcmp	Fa,Fc	C	X
119	77	fdiv	Fa,Fb,Fc	D	
150	96	fload	[Ra+data16],Fc	E	
120	78	fload	[Ra+Rb],Fc	D	
118	76	fmul	Fa,Fb,Fc	D	
93	5D	fneg	Fa,Fc	C	
92	5C	fsqrt	Fa,Fc	C	
151	97	fstore	Fc,[Ra+data16]	E	
121	79	fstore	Fc,[Ra+Rb]	D	
117	75	fsub	Fa,Fb,Fc	D	

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89	59	ftoi	Fa,Rc	C		
1	01	wait		A	X	
90	5A	itof	Ra,Fc	C		
161	A1	jmp	data24	F		
65	41	jmp	Ra+Rc	C		
194	C2	ldaddr	data16,Rc	G		
32	20	ldptbr	Rc	B	X	
33	21	ldptlr	Rc	B	X	
139	8B	load	[Ra+data16],Rc	E		
107	6B	load	[Ra+Rb],Rc	D		
140	8C	loadb	[Ra+data16],Rc	E		
108	6C	loadb	[Ra+Rb],Rc	D		
142	8E	loadbv	[Ra+data16],Rc	E	X	
110	6E	loadbv	[Ra+Rb],Rc	D	X	
141	8D	loadv	[Ra+data16],Rc	E	X	
109	6D	loadv	[Ra+Rb],Rc	D	X	
130	82	mul	Ra,data16,Rc	E		X
98	62	mul	Ra,Rb,Rc	D		X
0	00	nop		A		
135	87	or	Ra,data16,Rc	E		X
103	67	or	Ra,Rb,Rc	D		X
85	55	pop	[Ra++],Rc	C		
84	54	push	Rc,[--Ra]	C		
147	93	readu	Rc,[Ra+data16]	E	X	
86	56	readu	Rc,Ra	C	X	
149	95	rem	Ra,data16,Rc	E		X
115	73	rem	Ra,Rb,Rc	D		X
9	09	ret		A		
8	08	reti		A	X	
192	C0	sethi	data16,Rc	G		
4	04	seti		A	X	
193	C1	setlo	data16,Rc	G		
6	06	setp		A	X	
132	84	sll	Ra,data16,Rc	E		X
100	64	sll	Ra,Rb,Rc	D		X
134	86	sra	Ra,data16,Rc	E		X
102	66	sra	Ra,Rb,Rc	D		X
133	85	srl	Ra,data16,Rc	E		X
101	65	srl	Ra,Rb,Rc	D		X
143	8F	store	Rc,[Ra+data16]	E		
111	6F	store	Rc,[Ra+Rb]	D		
144	90	storeb	Rc,[Ra+data16]	E		
112	70	storeb	Rc,[Ra+Rb]	D		
146	92	storebv	Rc,[Ra+data16]	E	X	
114	72	storebv	Rc,[Ra+Rb]	D	X	
145	91	storev	Rc,[Ra+data16]	E	X	
113	71	storev	Rc,[Ra+Rb]	D	X	
129	81	sub	Ra,data16,Rc	E		X
97	61	sub	Ra,Rb,Rc	D		X
195	C3	syscall	Rc+data16	G		
88	58	tset	[Ra],Rc	C		
148	94	writeu	[Ra+data16],Rc	E	X	
87	57	writeu	Ra,Rc	C	X	
138	8A	xor	Ra,data16,Rc	E		X
106	6A	xor	Ra,Rb,Rc	D		X