	Α	В	С	D	E	F	G
add sub mul div sll srl sra or and andn xor rem				X	X		
load store				4 4	4 4		
call jmp b xx		 	X X 16	 	 	X X 16	
push pop			X X	 	 		
sethi setlo ldaddr syscall			 	 	 	 	X X X
nop wait debug debug2 seti,cleari, reti ret tset	X X X X 5 X		 X				
readu writeu ldptbr ldptlr		 X X	X X 		X X 	 	
ftoi itof fadd fsub fmul fdiv fcmp fsqrt fneg fabs fload			X X X X X X	 	 		
fstore	 	 	 	X	x 	 	

Key:

X = This instruction exists
num = Several instructions exist

Format A:
Format B: Rc
Format C: Rc,Ra
Format D: Rc,Ra,Rb
Format E: Rc,Ra,data16
Format F: data24
Format G: Rc,data16

Op Code (Decimal)	Op Code (Hex)	Instruction		Format	Privileged Instruction	Modifies Cond. Codes
96	60	add	R_a, R_b, R_c	D		X
128	80	add	R _a ,data16,R _c	E		X
97	61	sub	R_a, R_b, R_c	D		X
129	81	sub	R _a ,data16,R _c	E		X
98	62	mul	R_a, R_b, R_c	D		X
130	82	mul	R _a ,data16,R _c	E		X
99	63	div	R_a, R_b, R_c	D		X
131	83	div	R _a ,data16,R _c	E		X
100	64	sll	R_a, R_b, R_c	D		X
132	84	sll	R _a ,data16,R _c	E		X
101	65	srl	R_a, R_b, R_c	D		X
133	85	srl	R _a ,data16,R _c	E		X
102	66	sra	R_a, R_b, R_c	D		X
134	86	sra	R _a ,data16,R _c	E		X
103	67	or	R_a, R_b, R_c	D		X
135	87	or	R_a , data16, R_c	E		X
104	68	and	R_a, R_b, R_c	D		X
136	88	and	R _a ,data16,R _c	E		X
105	69	andn	R_a, R_b, R_c	D		X
137	89	andn	R_a , data16, R_c	E		X
106	6A	xor	R_a, R_b, R_c	D		X
138	8A	xor	R_a , data16, R_c	E		X
115	73	rem	R_a, R_b, R_c	D		X
149	95	rem	R_a , data16, R_c	E		X
107	6B	load	$[R_a+R_b]$, R_c	D		
139	8B	load	[R _a +data16],R _c	E		
108	6C	loadb	$[R_a + R_b], R_c$	D		
140	8C	loadb	[R_a +data16], R_c	E		
109	6D	loadv	$[R_a+R_b]$, R_c	D	X	
141	8D	loadv	[R _a +data16],R _c	E	X	
110	6E	loadbv	$[R_a+R_b]$, R_c	D	X	
142	8E	loadbv	[R _a +data16],R _c	E	X	
111	6F	store	R _c ,[R _a +R _b]	D		
143	8F	store	R _c ,[R _a +data16]	E		
112	70	storeb	R_{c} , $[R_a + R_b]$	D		
144	90	storeb	R _c ,[R _a +data16]	E		
113	71	storev	R_{c} , $[R_a + R_b]$	D	X	
145	91	storev	R _c ,[R _a +data16]	E	X	
114	72	storebv	R _c , [R _a +R _b]	D	x	
146	92	storebv	R _c ,[R _a +data16]	Е	Х	

Op Code	Op Code				Privileged	Modifies
(Decimal)	(Hex)	Instruction call		Format C	Instruction	Cond. Codes
64 160	40 A0	call	R _a +R _c data24	F		
65	41			C		
		jmp 	$R_a + R_c$			
161	A1	jmp	data24	F		
66	42	be	R _a +R _c	C -		
162	A2	be	data24	F		
67	43	bne	$R_a + R_c$	С		
163	A3	bne	data24	F		
68	44	bl	R _a +R _c	С		
164	A4	bl	data24	F		
69	45	ble	$R_a + R_c$	С		
165	A5	ble	data24	F		
70	46	bg	$R_a + R_c$	С		
166	A6	bg	data24	F		
71	47	bge	$R_a + R_c$	С		
167	A7	bge	data24	F		
72	48					
168	A8					
73	49					
169	A9					
74	4A	bvs	$R_a + R_c$	С		
170	AA	bvs	data24	F		
75	4B	bvc	$R_a + R_c$	С		
171	AB	bvc	data24	F		
76	4C	bns	$R_a + R_c$	С		
172	AC	bns	data24	F		
77	4D	bnc	$R_a + R_c$	С		
173	AD	bnc	data24	F		
78	4E	bss	R _a +R _c	С		
174	AE	bss	data24	F		
79	4F	bsc	R _a +R _c	С		
175	AF	bsc	data24	F		
80	50	bis	R _a +R _c	С		
176	В0	bis	data24	F		
81	51	bic	R _a +R _c	С		
177	В1	bic	data24	F		
82	52	bps	R _a +R _c	С		
178	В2	bps	data24	F		
83	53	bpc	R _a +R _c	C		
179	В3	bpc	data24	F		
1,,	D 3	PPC	446424	ı		

Op Code (Decimal)	Op Code (Hex)	Instruction		Format	Privileged Instruction	Modifies Cond. Codes
84	54	push	R _c ,[R _a]	С		
85	55	pop	$[R_a++],R_c$	С		
192	C0	sethi	data16,R _c	G		
193	C1	setlo	data16,R _c	G		
194	C2	ldaddr	data16,R _c	G		
195	C3	syscall	R _c +data16	G		
0	00	nop		A		
1	01	wait		A	X	
2	02	debug		A		
3	03	cleari		A	X	
4	04	seti		A	X	
5	05	clearp		A	X	
6	06	setp		A	X	
7	07	clears		A	X	
8	08	reti		A	X	
9	09	ret		A		
10	0A	debug2		A		
88	58	tset	$[R_a], R_c$	С		
86	56	readu	R _c ,R _a	С	Х	
147	93	readu	R _c ,[R _a +data16]	E	X	
87	57	writeu	R_a, R_c	С	X	
148	94	writeu	[R _a +data16],R _c	E	X	
32	20	ldptbr	R _c	В	Х	
33	21	ldptlr	R_c	В	X	
89	59	ftoi	F _a ,R _c	С		
90	5A	itof	R_a, F_c	С		
116	74	fadd	F _a ,F _b ,F _c	D		
117	75	fsub	F _a ,F _b ,F _c	D		
118	76	fmul	F _a ,F _b ,F _c	D		
119	77	fdiv	F _a ,F _b ,F _c	D		
91	5B	fcmp	F _a ,F _c	С		X
92	5C	fsqrt	F_a, F_c	С		
93	5D	fneg	F_a, F_c	С		
94	5E	fabs	F_a, F_c	С		
120	78	fload	$[R_a + R_b]$, F_c	D		
150	96	fload	[R _a +data16],F _c	E		
121	79	fstore	F_{c} , $[R_a + R_b]$	D		
151	97	fstore	F _c ,[R _a +data16]	Е		