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Identification

EPLBSA Machine Operations

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Purpose

This section is an alphabetical listing of all machine operations recognized by EPLBSA. Note that there are often two or more synonymous names for the same machine operation code.

EPLBSA Operation Codes

<u>Instruction</u>		<u>Modifiers Not Allowed</u>
075	ADA Add to Accumulator	--
077	ADAQ Add to A-Q	DU DL CI SC SCR
050	ADBO Add to Base 0	CI SC SCR
051	ADB1 Add to Base 1	CI SC SCR
052	ADB2 Add to Base 2	CI SC SCR
053	ADB3 Add to Base 3	CI SC SCR
150	ADB4 Add to Base 4	CI SC SCR
151	ADB5 Add to Base 5	CI SC SCR
152	ADB6 Add to Base 6	CI SC SCR
153	ADB7 Add to Base 7	CI SC SCR
051	ADBAB Add to Base AB	CI SC SCR
050	ADBAP Add to Base AP	CI SC SCR
053	ADBBB Add to Base BB	CI SC SCR
052	ADBBP Add to Base BP	CI SC SCR
151	ADBLB Add to Base LB	CI SC SCR
150	ADBLP Add to Base LP	CI SC SCR
153	ADBSB Add to Base SB	CI SC SCR
152	ADBSP Add to Base SP	CI SC SCR
415	ADE Add to Exponent Register	CI SC SCR
033	ADL Add Low to A-Q	CI SC SCR
035	ADLA Add Logical to Accumulator	--
037	ADLAQ Add Logical to A-Q	DU DL CI SC SCR
036	ADLQ Add Logical to Quotient	--
020	ADLX0 Add Logical to Index 0	CI SC SCR
021	ADLX1 Add Logical to Index 1	CI SC SCR
022	ADLX2 Add Logical to Index 2	CI SC SCR
023	ADLX3 Add Logical to Index 3	CI SC SCR
024	ADLX4 Add Logical to Index 4	CI SC SCR
025	ADLX5 Add Logical to Index 5	CI SC SCR
026	ADLX6 Add Logical to Index 6	CI SC SCR
027	ADLX7 Add Logical to Index 7	CI SC SCR
076	ADQ Add to Quotient Register	--
060	ADX0 Add to Index 0	CI SC SCR
061	ADX1 Add to Index 1	CI SC SCR

<u>Instruction</u>			<u>Modifiers Not Allowed</u>
062	ADX2	Add to Index 2	CI SC SCR
063	ADX3	Add to Index 3	CI SC SCR
064	ADX4	Add to Index 4	CI SC SCR
065	ADX5	Add to Index 5	CI SC SCR
066	ADX6	Add to Index 6	CI SC SCR
067	ADX7	Add to Index 7	CI SC SCR
775	ALR	Accumulator Left Rotate	DU DL CI SC SCR
735	ALS	Accumulator Left Shift	DU DL CI SC SCR
375	ANA	And to Accumulator	--
377	ANAQ	And to A-Q	DU DL CI SC SCR
376	ANQ	And to Quotient	--
355	ANSA	And to Storage Accumulator	DU DL CI SC SCR
356	ANSQ	And to Storage Quotient	DU DL CI SC SCR
340	ANSX0	And to Storage Index 0	DU DL CI SC SCR
341	ANSX1	And to Storage Index 1	DU DL CI SC SCR
342	ANSX2	And to Storage Index 2	DU DL CI SC SCR
343	ANSX3	And to Storage Index 3	DU DL CI SC SCR
344	ANSX4	And to Storage Index 4	DU DL CI SC SCR
345	ANSX5	And to Storage Index 5	DU DL CI SC SCR
346	ANSX6	And to Storage Index 6	DU DL CI SC SCR
347	ANSX7	And to Storage Index 7	DU DL CI SC SCR
360	ANX0	And to Index 0	CI SC SCR
361	ANX1	And to Index 1	CI SC SCR
362	ANX2	And to Index 2	CI SC SCR
363	ANX3	And to Index 3	CI SC SCR
364	ANX4	And to Index 4	CI SC SCR
365	ANX5	And to Index 5	CI SC SCR
366	ANX6	And to Index 6	CI SC SCR
367	ANX7	And to Index 7	CI SC SCR
054	AOS	Add One to Storage	DU DL CI SC SCR
771	ARL	Accumulator Right Logical	DU DL CI SC SCR
731	ARS	Accumulator Right Shift	DU DL CI SC SCR
055	ASA	Add Stored to Accumulator	DU DL CI SC SCR
056	ASQ	Add Stored to Quotient	DU DL CI SC SCR

<u>Instruction</u>		<u>Modifiers Not Allowed</u>
040 ASX0	Add Stored to Index 0	DU DL CI SC SCR
041 ASX1	Add Stored to Index 1	DU DL CI SC SCR
042 ASX2	Add Stored to Index 2	DU DL CI SC SCR
043 ASX3	Add Stored to Index 3	DU DL CI SC SCR
044 ASX4	Add Stored to Index 4	DU DL CI SC SCR
045 ASX5	Add Stored to Index 5	DU DL CI SC SCR
046 ASX6	Add Stored to Index 6	DU DL CI SC SCR
047 ASX7	Add Stored to Index 7	DU DL CI SC SCR
071 AWCA	Add with Carry to Accumulator	--
072 AWCQ	Add with Carry to Quotient	--
505 BCD	Binary to Binary-Coded-Decimal	CI SC SCR
532 CAM	Clear Associative Memory	No Modifications
315 CANA	Comparative And With Accumulator	--
317 CANAQ	Comparative And With A-Q	DU DL CI SC SCR
316 CANQ	Comparative And With Quotient	--
300 CANX0	Comparative And With Index 0	CI SC SCR
301 CANX1	Comparative And With Index 1	CI SC SCR
302 CANX2	Comparative And With Index 2	CI SC SCR
303 CANX3	Comparative And With Index 3	CI SC SCR
304 CANX4	Comparative And With Index 4	CI SC SCR
305 CANX5	Comparative And With Index 5	CI SC SCR
306 CANX6	Comparative And With Index 6	CI SC SCR
307 CANX7	Comparative And With Index 7	CI SC SCR
015 CIOC	Connect I/O Channel	DU DL CI SC SCR
532 CLAM	Clear Associative Memory	No Modifications
405 CMG	Compare With Magnitude	--
211 CMK	Compare Masked	--
115 CMPA	Compare With Accumulator	--
117 CMPAQ	Compare With A-Q	--
116 CMPQ	Compare With Quotient Register	--
100 CMPX0	Compare With Index 0	CI SC SCR
101 CMPX1	Compare With Index 1	CI SC SCR
102 CMPX2	Compare With Index 2	CI SC SCR

<u>Instruction</u>		<u>Modifiers Not Allowed</u>
103	CMPX3 Compare With Index 3	CI SC SCR
104	CMPX4 Compare With Index 4	CI SC SCR
105	CMPX5 Compare With Index 5	CI SC SCR
106	CMPX6 Compare With Index 6	CI SC SCR
107	CMPX7 Compare With Index 7	CI SC SCR
215	CNA A Comparative Not With Accumulator	--
217	CNA AQ Comparative Not With A-Q	DU DL CI SC SCR
216	CNA Q Comparative Not With Quotient	--
200	CNAX0 Comparative Not With Index 0	CI SC SCR
201	CNAX1 Comparative Not With Index 1	CI SC SCR
202	CNAX2 Comparative Not With Index 2	CI SC SCR
203	CNAX3 Comparative Not With Index 3	CI SC SCR
204	CNAX4 Comparative Not With Index 4	CI SC SCR
205	CNAX5 Comparative Not With Index 5	CI SC SCR
206	CNAX6 Comparative Not With Index 6	CI SC SCR
207	CNAX7 Comparative Not With Index 7	CI SC SCR
111	CWL Compare With Limits	--
477	DFAD Double Precision Floating Add	DU DL CI SC SCR
427	DFCMG Double Floating Compare Magnitude	DU DL CI SC SCR
517	DFCMP Double Precision Floating Compare	DU DL CI SC SCR
527	DFDI Double Floating Divide Inverted	DU DL CI SC SCR
567	DFDV Double Precision Floating Divide	DU DL CI SC SCR
433	DFLD Double Precision Floating Load	DU DL CI SC SCR
463	DFMP Double Precision Floating Multiply	DU DL CI SC SCR
577	DFSB Double Precision Floating Subtract	DU DL CI SC SCR
457	DFST Double Precision Floating Store	DU DL CI SC SCR
616	DIS Delay Until Interrupt Signal	No Modifications
506	DIV Divide Integer	--
002	DRL Derail	CI SC SCR
437	DUFA Double Unnormalized Floating Add	DU DL CI SC SCR
423	DUFM Double Unnormalized Floating Multiply	DU DL CI SC SCR
537	DUFS Double Unnormalized Floating Subtract	DU DL CI SC SCR
507	DVF Divide Fraction	--
635	EAA Effective Address to Accumulator	DU DL

<u>Instruction</u>		<u>Modifiers Not Allowed</u>
310	LAB0 Effective Address to Base 0	DU DL CI SC SCR
311	EAB1 Effective Address to Base 1	DU DL CI SC SCR
312	EAB2 Effective Address to Base 2	DU DL CI SC SCR
313	EAB3 Effective Address to Base 3	DU DL CI SC SCR
330	LAB4 Effective Address to Base 4	DU DL CI SC SCR
331	EAB5 Effective Address to Base 5	DU DL CI SC SCR
332	EAB6 Effective Address to Base 6	DU DL CI SC SCR
333	EAB7 Effective Address to Base 7	DU DL CI SC SCR
311	EABAB Effective Address to Base AB	DU DL CI SC SCR
310	EABAP Effective Address to Base AP	DU DL CI SC SCR
313	EABBB Effective Address to Base BB	DU DL CI SC SCR
312	EABBP Effective Address to Base BP	DU DL CI SC SCR
331	EALB Effective Address to Base LB	DU DL CI SC SCR
330	EALP Effective Address to Base LP	DU DL CI SC SCR
333	EASB Effective Address to Base SB	DU DL CI SC SCR
332	EASP Effective Address to Base SP	DU DL CI SC SCR
350	EAP0 Effective Address to Pair 0	DU DL CI SC SCR
351	EAP1 Effective Address to Pair 1	DU DL CI SC SCR
352	EAP2 Effective Address to Pair 2	DU DL CI SC SCR
353	EAP3 Effective Address to Pair 3	DU DL CI SC SCR
370	EAP4 Effective Address to Pair 4	DU DL CI SC SCR
371	EAP5 Effective Address to Pair 5	DU DL CI SC SCR
372	EAP6 Effective Address to Pair 6	DU DL CI SC SCR
373	EAP7 Effective Address to Pair 7	DU DL CI SC SCR
351	EAPAB Effective Address to Pair AB	DU DL CI SC SCR
350	EAPAP Effective Address to Pair AP	DU DL CI SC SCR
353	EAPBB Effective Address to Pair BB	DU DL CI SC SCR
352	EAPBP Effective Address to Pair BP	DU DL CI SC SCR
371	EAPLB Effective Address to Pair LB	DU DL CI SC SCR
370	EAPLP Effective Address to Pair LP	DU DL CI SC SCR
373	EAPSB Effective Address to Pair SB	DU DL CI SC SCR
372	EAPSP Effective Address to Pair SP	DU DL CI SC SCR
636	EAQ Effective Address to Quotient Reg.	DU DL

<u>Instruction</u>		<u>Modifiers Not Allowed</u>	
620	EAX0	Effective Address Index 0	DU DL CI SC SCR
621	EAX1	Effective Address Index 1	DU DL CI SC SCR
622	EAX2	Effective Address Index 2	DU DL CI SC SCR
623	EAX3	Effective Address Index 3	DU DL CI SC SCR
624	EAX4	Effective Address Index 4	DU DL CI SC SCR
625	EAX5	Effective Address Index 5	DU DL CI SC SCR
626	EAX6	Effective Address Index 6	DU DL CI SC SCR
627	EAX7	Effective Address Index 7	DU DL CI SC SCR
675	ERA	Exclusive Or to Accumulator	--
677	ERAQ	Exclusive Or to A-Q	DU DL CI SC SCR
676	ERQ	Exclusive Or to Quotient	--
655	ERSA	Exclusive Or to Storage Accumulator	DU DL CI SC SCR
656	ERSQ	Exclusive Or to Storage Quotient	DU DL CI SC SCR
640	ERSX0	Exclusive Or to Storage Index 0	DU DL CI SC SCR
641	ERSX1	Exclusive Or to Storage Index 1	DU DL CI SC SCR
642	ERSX2	Exclusive Or to Storage Index 2	DU DL CI SC SCR
643	ERSX3	Exclusive Or to Storage Index 3	DU DL CI SC SCR
644	ERSX4	Exclusive Or to Storage Index 4	DU DL CI SC SCR
645	ERSX5	Exclusive Or to Storage Index 5	DU DL CI SC SCR
646	ERSX6	Exclusive Or to Storage Index 6	DU DL CI SC SCR
647	ERSX7	Exclusive Or to Storage Index 7	DU DL CI SC SCR
660	ERX0	Exclusive Or to Index 0	CI SC SCR
661	ERX1	Exclusive Or to Index 1	CI SC SCR
662	ERX2	Exclusive Or to Index 2	CI SC SCR
663	ERX3	Exclusive Or to Index 3	CI SC SCR
664	ERX4	Exclusive Or to Index 4	CI SC SCR
665	ERX5	Exclusive Or to Index 5	CI SC SCR
666	ERX6	Exclusive Or to Index 6	CI SC SCR
667	ERX7	Exclusive Or to Index 7	CI SC SCR
001	ESCAPE	Same as MME1	CI SC SCR
475	FAD	Floating Add	CI SC SCR
425	FCMG	Floating Compare Magnitude	CI SC SCR
515	FCMP	Floating Compare	CI SC SCR
525	FDI	Floating Divide Inverted	CI SC SCR

<u>Instruction</u>		<u>Modifiers Not Allowed</u>
565	FDV Floating Divide	CI SC SCR
431	FLD Floating Load	CI SC SCR
461	FMP Floating Multiply	CI SC SCR
513	FNEG Floating Negate	No Modifications
573	FNO Floating Normalize	No Modifications
575	FSB Floating Subtract	CI SC SCR
455	FST Floating Store	DU DL CI SC SCR
430	FSZN Floating Set Zero and Negative Indicators	CI SC SCR
774	GTB Gray to Binary	No Modifications
453	LACL Load Alarm Clock	DU DL CI SC SCR
760	LBR0 Load Address Base Register 0	DU DL CI SC SCR
761	LBR1 Load Address Base Register 1	DU DL CI SC SCR
762	LBR2 Load Address Base Register 2	DU DL CI SC SCR
763	LBR3 Load Address Base Register 3	DU DL CI SC SCR
764	LBR4 Load Address Base Register 4	DU DL CI SC SCR
765	LBR5 Load Address Base Register 5	DU DL CI SC SCR
766	LBR6 Load Address Base Register 6	DU DL CI SC SCR
767	LBR7 Load Address Base Register 7	DU DL CI SC SCR
761	LBRAB Load Address Base Register AB	DU DL CI SC SCR
760	LBRAP Load Address Base Register AP	DU DL CI SC SCR
763	LBRBB Load Address Base Register BB	DU DL CI SC SCR
762	LBRBP Load Address Base Register BP	DU DL CI SC SCR
765	LBRLB Load Address Base Register LB	DU DL CI SC SCR
764	LBRLP Load Address Base Register LP	DU DL CI SC SCR
767	LBRSB Load Address Base Register SB	DU DL CI SC SCR
766	LBRSP Load Address Base Register SP	DU DL CI SC SCR
335	LCA Load Complement into Acc.	--
337	LCAQ Load Complement into A-Q	DU DL CI SC SCR
336	LCQ Load Complement into Q	--
320	LCX0 Load Complement into Index 0	DU DL CI SC SCR
321	LCX1 Load Complement into Index 1	DU DL CI SC SCR
322	LCX2 Load Complement into Index 2	DU DL CI SC SCR
323	LCX3 Load Complement into Index 3	DU DL CI SC SCR
324	LCX4 Load Complement into Index 4	DU DL CI SC SCR

<u>Instruction</u>		<u>Modifiers Not Allowed</u>
325	LCX5 Load Complement into Index 5	DU DL CI SC SCR
326	LCX6 Load Complement into Index 6	DU DL CI SC SCR
327	LCX7 Load Complement into Index 7	DU DL CI SC SCR
235	LDA Load Accumulator	--
237	LDAQ Load A-Q Register	DU DL CI SC SCR
173	LDB Load Bases	DU DL CI SC SCR
232	LDBR Load Descriptor Base Register	DU DL CI SC SCR
512	LDCF Load Control Field	CI SC SCR
411	LDE Load Exponent Register	CI SC SCR
634	LDI Load Indicator Register	CI SC SCR
236	LDQ Load Quotient Register	--
637	LDT Load Timer Register	CI SC SCR
220	LDX0 Load Index 0	CI SC SCR
221	LDX1 Load Index 1	CI SC SCR
222	LDX2 Load Index 2	CI SC SCR
223	LDX3 Load Index 3	CI SC SCR
224	LDX4 Load Index 4	CI SC SCR
225	LDX5 Load Index 5	CI SC SCR
226	LDX6 Load Index 6	CI SC SCR
227	LDX7 Load Index 7	CI SC SCR
777	LLR Long Left Rotate	DU DL CI SC SCR
737	LLS Long Left Shift	DU DL CI SC SCR
073	LREG Load Registers	DU DL CI SC SCR
773	LRL Long Right Logical	DU DL CI SC SCR
733	LRS Long Right Shift	DU DL CI SC SCR
720	LXL0 Load Index 0 from Lower	DU DL CI SC SCR
721	LXL1 Load Index 1 from Lower	DU DL CI SC SCR
722	LXL2 Load Index 2 from Lower	DU DL CI SC SCR
723	LXL3 Load Index 3 from Lower	DU DL CI SC SCR
724	LXL4 Load Index 4 from Lower	DU DL CI SC SCR
725	LXL5 Load Index 5 from Lower	DU DL CI SC SCR
726	LXL6 Load Index 6 from Lower	DU DL CI SC SCR
727	LXL7 Load Index 7 from Lower	DU DL CI SC SCR

<u>Instruction</u>		<u>Modifier Not Allowed</u>
001 MME1	Master Mode Entry 1	CI SC SCR
004 MME2	Master Mode Entry 2	CI SC SCR
005 MME3	Master Mode Entry 3	CI SC SCR
007 MME4	Master Mode Entry 4	CI SC SCR
001 MME	Master Mode Entry (Same as MME 1)	CI SC SCR
401 MPF	Multiply Fraction	CI SC SCR
401 MPY	Multiply Integer	CI SC SCR
531 NEG	Negate Accumulator	No Modifications
533 NEGL	Negate Long	No Modifications
011 NOP	No Operation	--
275 ORA	Or to Accumulator	--
277 ORAQ	Or to A-Q	DU DL CI SC SCR
276 ORQ	Or to Quotient	--
255 ORSA	Or to Storage Accumulator	DU DL CI SC SCR
256 ORSQ	Or to Storage Quotient	DU DL CI SC SCR
240 ORSX0	Or to Storage Index 0	DU DL CI SC SCR
241 ORSX1	Or to Storage Index 1	DU DL CI SC SCR
242 ORSX2	Or to Storage Index 2	DU DL CI SC SCR
243 ORSX3	Or to Storage Index 3	DU DL CI SC SCR
244 ORSX4	Or to Storage Index 4	DU DL CI SC SCR
245 ORSX5	Or to Storage Index 5	DU DL CI SC SCR
246 ORSX6	Or to Storage Index 6	DU DL CI SC SCR
247 ORSX7	Or to Storage Index 7	DU DL CI SC SCR
260 ORX0	Or to Index 0	CI SC SCR
261 ORX1	Or to Index 1	CI SC SCR
262 ORX2	Or to Index 2	CI SC SCR
263 ORX3	Or to Index 3	CI SC SCR
264 ORX4	Or to Index 4	CI SC SCR
265 ORX5	Or to Index 5	CI SC SCR
266 ORX6	Or to Index 6	CI SC SCR
267 ORX7	Or to Index 7	CI SC SCR
776 QLR	Quotient Left Rotate	DU DL CI SC SCR
736 QLS	Quotient Left Shift	DU DL CI SC SCR
772 QRL	Quotient Right Logical	DU DL CI SC SCR

<u>Instruction</u>		<u>Modifiers Not Allowed</u>	
732	QRS	Quotient Right Shift	DU DL CI SC SCR
633	RCCL	Read Calendar Clock	DU DL CI SC SCR
613	RCU	Restore Control Unit	DU DL CI SC SCR
630	RCT	Return	DU DL CI SC SCR
233	RMCM	Read MC Mask Register	DU DL CI SC SCR
500	RPD	Repeat Double	No Modifications
500	RPL	Repeat Link	No Modifications
520	RPT	Repeat	No Modifications
231	RSW	Read Switches	No Modifications
610	RTCD	Return Double	DU DL CI SC SCR
610	RTD	Return Double (Same as RTCD)	DU DL CI SC SCR
557	SAM	Store Associative Memory	DU DL CI SC SCR
175	SBA	Subtract From Accumulator	--
177	SBAQ	Subtract From A-Q	DU DL CI SC SCR
135	SBLA	Subtract Logical From Accumulator	--
137	SBLAQ	Subtract Logical From A-Q	DU DL CI SC SCR
136	SBLQ	Subtract Logical From Quotient	--
120	SBLX0	Subtract Logical From Index 0	CI SC SCR
121	SBLX1	Subtract Logical From Index 1	CI SC SCR
122	SBLX2	Subtract Logical From Index 2	CI SC SCR
123	SBLX3	Subtract Logical From Index 3	CI SC SCR
124	SBLX4	Subtract Logical From Index 4	CI SC SCR
125	SBLX5	Subtract Logical From Index 5	CI SC SCR
126	SBLX6	Subtract Logical From Index 6	CI SC SCR
127	SBLX7	Subtract Logical From Index 7	CI SC SCR
176	SBQ	Subtract From Quotient	--
540	SBR0	Store Base Register 0	DU DL CI SC SCR
541	SBR1	Store Base Register 1	DU DL CI SC SCR
542	SBR2	Store Base Register 2	DU DL CI SC SCR
543	SBR3	Store Base Register 3	DU DL CI SC SCR
544	SBR4	Store Base Register 4	DU DL CI SC SCR
545	SBR5	Store Base Register 5	DU DL CI SC SCR
546	SBR6	Store Base Register 6	DU DL CI SC SCR
547	SBR7	Store Base Register 7	DU DL CI SC SCR

<u>Instruction</u>		<u>Modifiers Not Allowed</u>
541	SBRAB Store Base Register AB	DU DL CI SC SCR
540	SBRAP Store Base Register AP	DU DL CI SC SCR
543	SBRBB Store Base Register BB	DU DL CI SC SCR
542	SBRBP Store Base Register BP	DU DL CI SC SCR
545	SBRLB Store Base Register LB	DU DL CI SC SCR
544	SBRLP Store Base Register LP	DU DL CI SC SCR
547	SBR SB Store Base Register SB	DU DL CI SC SCR
546	SBRSP Store Base Register SP	DU DL CI SC SCR
160	SBX0 Subtract From Index 0	CI SC SCR
161	SBX1 Subtract From Index 1	CI SC SCR
162	SBX2 Subtract From Index 2	CI SC SCR
163	SBX3 Subtract From Index 3	CI SC SCR
164	SBX4 Subtract From Index 4	CI SC SCR
165	SBX5 Subtract From Index 5	CI SC SCR
166	SBX6 Subtract From Index 6	CI SC SCR
167	SBX7 Subtract From Index 7	CI SC SCR
657	SCU Store Control Unit	DU DL CI SC SCR F1, F2, F3
154	SDBR Store Descriptor Base Register	DU DL CI SC SCR
553	SMCM Set MC Mask Register	DU DL CI SC SCR
451	SMIC Set MC Interrupt Cells	DU DL CI SC SCR
753	SREG Store Registers	DU DL CI SC SCR
155	SSA Subtract Stored From Accumulator	DU DL CI SC SCR
156	SSQ Subtract Stored From Quotient	DU DL CI SC SCR
140	SSX0 Subtract Stored From Index 0	DU DL CI SC SCR
141	SSX1 Subtract Stored From Index 1	DU DL CI SC SCR
142	SSX2 Subtract Stored From Index 2	DU DL CI SC SCR
143	SSX3 Subtract Stored From Index 3	DU DL CI SC SCR
144	SSX4 Subtract Stored From Index 4	DU DL CI SC SCR
145	SSX5 Subtract Stored From Index 5	DU DL CI SC SCR
146	SSX6 Subtract Stored From Index 6	DU DL CI SC SCR
147	SSX7 Subtract Stored From Index 7	DU DL CI SC SCR
755	STA Store Accumulator	DU DL
345	STAC Store A Conditional	DU DL CI SC SCR

IntroductionModifications Not Allowed

557	STAM	Store Associative Memory (Same as SAM)	DU DL CI SC SCR
757	STAQ	Store A-Q	DU DL CI SC SCR
254	STB	Store Bases	DU DL CI SC SCR
551	STBA	Store Character of A(9)	No Modifications
552	STBQ	Store Character of Q(9)	No Modifications
554	STC1	Store Instruction Counter +1	DU DL CI SC SCR
750	STC2	Store Instruction Counter +2	DU DL CI SC SCR
751	STCA	Store Character of A (6)	No Modifications
357	STCD	Store Control Double	DU DL CI SC SCR
752	STCQ	Store Character of Q(6)	No Modifications
456	STE	Store Exponent Register	DU DL CI SC SCR
754	STI	Store Indicators	DU DL CI SC SCR
250	STP0	Store Pair 0	DU DL CI SC SCR
251	STP1	Store Pair 1	DU DL CI SC SCR
252	STP2	Store Pair 2	DU DL CI SC SCR
253	STP3	Store Pair 3	DU DL CI SC SCR
650	STP4	Store Pair 4	DU DL CI SC SCR
651	STP5	Store Pair 5	DU DL CI SC SCR
652	STP6	Store Pair 6	DU DL CI SC SCR
653	STP7	Store Pair 7	DU DL CI SC SCR
251	STPAB	Store Pair AB	DU DL CI SC SCR
250	STPAP	Store Pair AP	DU DL CI SC SCR
253	STPBB	Store Pair BB	DU DL CI SC SCR
252	STPBP	Store Pair BP	DU DL CI SC SCR
651	STPLB	Store Pair LB	DU DL CI SC SCR
650	STPLP	Store Pair LP	DU DL CI SC SCR
653	STPSB	Store Pair SB	DU DL CI SC SCR
652	STPSP	Store Pair SP	DU DL CI SC SCR
756	STQ	Store Quotient	DU DL
454	STT	Store Timer Register	DU DL CI SC SCR
740	STX0	Store Index 0	DU DL CI SC SCR
741	STX1	Store Index 1	DU DL CI SC SCR
742	STX2	Store Index 2	DU DL CI SC SCR

IntroductionModifiers Not Allowed

743	STX3	Store Index 3	DU DL CI SC SCR
744	STX4	Store Index 4	DU DL CI SC SCR
745	STX5	Store Index 5	DU DL CI SC SCR
746	STX6	Store Index 6	DU DL CI SC SCR
747	STX7	Store Index 7	DU DL CI SC SCR
450	STZ	Store Zero	DU DL CI SC SCR
171	SWCA	Subtract with Carry From Accumulator	--
172	SWCQ	Subtract with Carry From Quotient	--
440	SXLO	Store Index 0 In Lower	DU DL CI SC SCR
441	SXL1	Store Index 1 In Lower	DU DL CI SC SCR
442	SXL2	Store Index 2 In Lower	DU DL CI SC SCR
443	SXL3	Store Index 3 In Lower	DU DL CI SC SCR
444	SXL4	Store Index 4 In Lower	DU DL CI SC SCR
445	SXL5	Store Index 5 In Lower	DU DL CI SC SCR
446	SXL6	Store Index 6 In Lower	DU DL CI SC SCR
447	SXL7	Store Index 7 In Lower	DU DL CI SC SCR
234	SZN	Set Zero and Negative Indicators	--
614	TEO	Transfer On Exponent Overflow	DU DL CI SC SCR
615	TEU	Transfer On Exponent Underflow	DU DL CI SC SCR
604	TMI	Transfer On Minus	DU DL CI SC SCR
602	TNC	Transfer On No Carry	DU DL CI SC SCR
601	TNZ	Transfer On Not Zero	DU DL CI SC SCR
617	TOV	Transfer On Overflow	DU DL CI SC SCR
605	TPL	Transfer On Plus	DU DL CI SC SCR
710	TRA	Transfer Unconditionally	DU DL CI SC SCR
603	TRC	Transfer On Carry	DU DL CI SC SCR
270	TSB0	Transfer And Set Base 0	DU DL CI SC SCR
271	TSB1	Transfer And Set Base 1	DU DL CI SC SCR
272	TSB2	Transfer And Set Base 2	DU DL CI SC SCR
273	TSB3	Transfer And Set Base 3	DU DL CI SC SCR
670	TSB4	Transfer And Set Base 4	DU DL CI SC SCR
671	TSB5	Transfer And Set Base 5	DU DL CI SC SCR
672	TSB6	Transfer And Set Base 6	DU DL CI SC SCR
673	TSB7	Transfer And Set Base 7	DU DL CI SC SCR

<u>Instruction</u>		<u>Qualifiers Not Allowed</u>	
271	TSBAB	Transfer and Set Base AB	DU DL CI SC SCR
270	TSBAP	Transfer and Set Base AP	DU DL CI SC SCR
273	TSBBB	Transfer and Set Base BB	DU DL CI SC SCR
272	TSBBP	Transfer and Set Base BP	DU DL CI SC SCR
671	TSBLB	Transfer and Set Base LB	DU DL CI SC SCR
670	TSBLP	Transfer and Set Base LP	DU DL CI SC SCR
673	TSBSB	Transfer and Set Base SB	DU DL CI SC SCR
672	TSBSP	Transfer and Set Base SP	DU DL CI SC SCR
715	TSS	Transfer and Set Slave	DU DL CI SC SCR
700	TSX0	Transfer And Set Index 0	DU DL CI SC SCR
701	TSX1	Transfer And Set Index 1	DU DL CI SC SCR
702	TSX2	Transfer And Set Index 2	DU DL CI SC SCR
703	TSX3	Transfer And Set Index 3	DU DL CI SC SCR
704	TSX4	Transfer And Set Index 4	DU DL CI SC SCR
705	TSX5	Transfer And Set Index 5	DU DL CI SC SCR
706	TSX6	Transfer And Set Index 6	DU DL CI SC SCR
707	TSX7	Transfer And Set Index 7	DU DL CI SC SCR
607	TTF	Transfer On Tally Indicator OFF	DU DL CI SC SCR
600	TZE	Transfer On Zero	DU DL CI SC SCR
435	UFA	Unnormalized Floating Add	CI SC SCR
421	UFM	Unnormalized Floating Multiply	CI SC SCR
535	UFS	Unnormalized Floating Subtract	CI SC SCR
716	XEC	Execute	DU DL CI SC SCR
717	XED	Execute Double	DU DL CI SC SCR
157	ZAM	Store Associative Memory Zero	DU DL CI SC SCR