

ESA/390 Facility Table

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Bit	By	Bi	SRDC*	Facility	Description
0	00	80	Y-11	000_N3_INSTR	N3 Instructions are installed
1	00	40	YY11	001_ZARCH_INSTALLED	z/Architecture architectural mode is installed
2	00	20	--00	002_ZARCH_ACTIVE	z/Architecture architectural mode is active
3	00	10	--00	003_DAT_ENHANCE_1	DAT-Enhancement Facility 1
4	00	08	--00	004_IDTE_SC_SEGTAB	IDTE selective clearing when segment-table invalidated
5	00	04	--00	005_IDTE_SC_REGTAB	IDTE selective clearing when region-table invalidated
6	00	02	--00	006_ASN_LX_REUSE	ASN-and-LX-Reuse Facility
7	00	01	Y-11	007_STFL_EXTENDED	Store-Facility-List-Extended Facility
8	01	80	--00	008_EDAT_1	Enhanced-DAT Facility 1
9	01	40	--00	009_SENSE_RUN_STATUS	Sense-Running-Status Facility
10	01	20	--00	010_CONDITIONAL_SSKE	Conditional-SSKE Facility
11	01	10	--00	011_CONFIG_TOPOLOGY	Configuration-Topology Facility
12	01	08	--00	012_IBM_INTERNAL	Assigned to IBM internal use
13	01	04	--00	013_IPTE_RANGE	IPTE-Range Facility
14	01	02	--00	014_NONQ_KEY_SET	Nonquiescing Key-Setting Facility
15	01	01	--00	015_IBM_INTERNAL	Assigned to IBM internal use
16	02	80	Y-11	016_EXT_TRANSL_2	Extended-Translation Facility 2
17	02	40	Y-11	017_MSA	Message-Security Assist
18	02	20	--00	018_LONG_DISPL_INST	Long-Displacement Facility
19	02	10	--00	019_LONG_DISPL_HPERF	Long-Displacement Facility Has High Performance
20	02	08	Y-11	020_HFP_MULT_ADD_SUB	HFP-Multiply-and-Add/Subtract Facility
21	02	04	--00	021_EXTENDED_IMMED	Extended-Immediate Facility
22	02	02	--00	022_EXT_TRANSL_3	Extended-Translation Facility 3
23	02	01	--00	023_HFP_UNNORM_EXT	HFP-Unnormalized-Extensions Facility
24	03	80	Y-11	024 ETF2_ENHANCEMENT	ETF2-Enhancement Facility
25	03	40	--00	025_STORE_CLOCK_FAST	Store-Clock-Fast Facility
26	03	20	--00	026_PARSING_ENHANCE	Parsing-Enhancement Facility
27	03	10	--00	027_MVCOS	Move-with-Optional-Specifications Facility
28	03	08	--00	028_TOD_CLOCK_STEER	TOD-Clock-Steering Facility
29	03	04	--00	029_UNDEFINED	Undefined
30	03	02	--00	030 ETF3_ENHANCEMENT	ETF3-Enhancement Facility
31	03	01	--00	031_EXTRACT_CPU_TIME	Extract-CPU-Time Facility
32	04	80	--00	032_CSSF	Compare-and-Swap-and-Store Facility 1
33	04	40	--00	033_CSSF2	Compare-and-Swap-and-Store Facility 2
34	04	20	--00	034_GEN_INST_EXTN	General-Instructions-Extension Facility
35	04	10	--00	035_EXECUTE_EXTN	Execute-Extensions Facility
36	04	08	--00	036_ENH_MONITOR	Enhanced-Monitor Facility
37	04	04	--00	037_FP_EXTENSION	Floating-Point-Extension Facility
38	04	02	--00	038_OP_CMPSC	Order-Preserving-Compression Facility
39	04	01	--00	039_IBM_INTERNAL	Assigned to IBM internal use
40	05	80	--00	040_LOAD_PROG_PARAM	Load-Program-Parameter Facility
41	05	40	--00	041_DFP_ROUNDING	Decimal-Floating-Point-Rounding Facility
41	05	40	--00	041_FPR_GR_TRANSFER	FPR-GR-Transfer Facility
41	05	40	--00	041_FPS_ENHANCEMENT	Floating-Point-Support-Enhancement Facility
41	05	40	--00	041_FPS_SIGN_HANDLING	Floating-Point-Support-Sign-Handling Facility
41	05	40	--00	041_IEEE_EXCEPT_SIM	IEEE-Exception-Simulation Facility
42	05	20	--00	042_DFP	Decimal-Floating-Point Facility
43	05	10	--00	043_DFP_HPERF	Decimal-Floating-Point Facility Has High Performance
44	05	08	--00	044_PFPO	PFPO (Perform Floating-Point Operation) Facility
45	05	04	--00	045_DISTINCT_OPERANDS	Distinct-Operands Facility

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45	05	04	--00	045_FAST_BCR_SERIAL	Fast-BCR-Serialization Facility
45	05	04	--00	045_HIGH_WORD	High-Word Facility
45	05	04	--00	045_INTERLOCKED_ACCESS_1	Interlocked-Access Facility 1
45	05	04	--00	045_LOAD_STORE_ON_COND_1	Load/Store-on-Condition Facility 1
45	05	04	--00	045_POPULATION_COUNT	Population-Count Facility
46	05	02	--00	046_IBM_INTERNAL	Assigned to IBM internal use
47	05	01	--00	047_CMPSC_ENH	CMPSC-Enhancement Facility
48	06	80	--00	048_DFP_ZONE_CONV	Decimal-Floating-Point-Zoned-Conversion Facility
49	06	40	--00	049_EXECUTION_HINT	Execution-Hint Facility
49	06	40	--00	049_LOAD_AND_TRAP	Load-and-Trap Facility
49	06	40	--00	049_MISC_INSTR_EXT_1	Miscellaneous-Instruction-Extensions Facility 1
49	06	40	--00	049_PROCESSOR_ASSIST	Processor-Assist Facility
50	06	20	--00	050_CONSTR_TRANSACTION	Constrained-Transactional-Execution Facility
51	06	10	--00	051_LOCAL_TLB_CLEARING	Local-TLB-Clearing Facility
52	06	08	Y-11	052_INTERLOCKED_ACCESS_2	Interlocked-Access Facility 2
53	06	04	--00	053_LOAD_STORE_ON_COND_2	Load/Store-on-Condition Facility 2
53	06	04	--00	053_LOAD_ZERO_RIGHTMOST	Load-and-Zero-Rightmost-Byte Facility
54	06	02	--00	054_EE_CMPSC	Entropy-Encoding-Compression Facility
55	06	01	--00	055_IBM_INTERNAL	Assigned to IBM internal use
56	07	80	--00	056_UNDEFINED	Undefined
57	07	40	--00	057_MSA_EXTENSION_5	Message-Security-Assist Extension 5
58	07	20	--00	058_MISC_INSTR_EXT_2	Miscellaneous-Instruction-Extensions Facility 2
59	07	10	--00	059_IBM_INTERNAL	Assigned to IBM internal use
60	07	08	--00	060_IBM_INTERNAL	Assigned to IBM internal use
61	07	04	--00	061_MISC_INSTR_EXT_3	Miscellaneous-Instruction-Extensions Facility 3
62	07	02	--00	062_IBM_INTERNAL	Assigned to IBM internal use
63	07	01	--00	063_IBM_INTERNAL	Assigned to IBM internal use
64	08	80	--00	064_IBM_INTERNAL	Assigned to IBM internal use
65	08	40	--00	065_IBM_INTERNAL	Assigned to IBM internal use
66	08	20	--00	066_RES_REF_BITS_MULT	Reset-Reference-Bits-Multiple Facility
67	08	10	--00	067_CPU_MEAS_COUNTER	CPU-Measurement Counter Facility
68	08	08	--00	068_CPU_MEAS_SAMPLNG	CPU-Measurement Sampling Facility
69	08	04	--00	069_IBM_INTERNAL	Assigned to IBM internal use
70	08	02	--00	070_IBM_INTERNAL	Assigned to IBM internal use
71	08	01	--00	071_IBM_INTERNAL	Assigned to IBM internal use
72	09	80	--00	072_IBM_INTERNAL	Assigned to IBM internal use
73	09	40	--00	073_TRANSACTION_EXEC	Transactional-Execution Facility
74	09	20	--00	074_STORE_HYPER_INFO	Store-Hypervisor-Information Facility
75	09	10	--00	075_ACC_EX_FS_INDIC	Access-Exception-Fetch/Store-Indication Facility
76	09	08	--00	076_MSA_EXTENSION_3	Message-Security-Assist Extension 3
77	09	04	--00	077_MSA_EXTENSION_4	Message-Security-Assist Extension 4
78	09	02	--00	078_EDAT_2	Enhanced-DAT Facility 2
79	09	01	--00	079_UNDEFINED	Undefined
80	0A	80	--00	080_DFP_PACK_CONV	Decimal-Floating-Point-Packed-Conversion Facility
81	0A	40	--00	081_PPA_IN_ORDER	PPA-in-order Facility
82	0A	20	--00	082_IBM_INTERNAL	Assigned to IBM internal use
83	0A	10	--00	083_UNDEFINED	Undefined
84	0A	08	--00	084_UNDEFINED	Undefined
85	0A	04	--00	085_UNDEFINED	Undefined
86	0A	02	--00	086_UNDEFINED	Undefined

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87	0A	01	--00	087_UNDEFINED	Undefined
88	0B	80	--00	088_UNDEFINED	Undefined
89	0B	40	--00	089_UNDEFINED	Undefined
90	0B	20	--00	090_UNDEFINED	Undefined
91	0B	10	--00	091_UNDEFINED	Undefined
92	0B	08	--00	092_UNDEFINED	Undefined
93	0B	04	--00	093_UNDEFINED	Undefined
94	0B	02	--00	094_UNDEFINED	Undefined
95	0B	01	--00	095_UNDEFINED	Undefined
96	0C	80	--00	096_UNDEFINED	Undefined
97	0C	40	--00	097_UNDEFINED	Undefined
98	0C	20	--00	098_UNDEFINED	Undefined
99	0C	10	--00	099_UNDEFINED	Undefined
100	0C	08	--00	100_UNDEFINED	Undefined
101	0C	04	--00	101_UNDEFINED	Undefined
102	0C	02	--00	102_UNDEFINED	Undefined
103	0C	01	--00	103_UNDEFINED	Undefined
104	0D	80	--00	104_UNDEFINED	Undefined
105	0D	40	--00	105_UNDEFINED	Undefined
106	0D	20	--00	106_UNDEFINED	Undefined
107	0D	10	--00	107_UNDEFINED	Undefined
108	0D	08	--00	108_UNDEFINED	Undefined
109	0D	04	--00	109_UNDEFINED	Undefined
110	0D	02	--00	110_UNDEFINED	Undefined
111	0D	01	--00	111_UNDEFINED	Undefined
112	0E	80	--00	112_UNDEFINED	Undefined
113	0E	40	--00	113_UNDEFINED	Undefined
114	0E	20	--00	114_UNDEFINED	Undefined
115	0E	10	--00	115_UNDEFINED	Undefined
116	0E	08	--00	116_UNDEFINED	Undefined
117	0E	04	--00	117_UNDEFINED	Undefined
118	0E	02	--00	118_UNDEFINED	Undefined
119	0E	01	--00	119_UNDEFINED	Undefined
120	0F	80	--00	120_UNDEFINED	Undefined
121	0F	40	--00	121_UNDEFINED	Undefined
122	0F	20	--00	122_UNDEFINED	Undefined
123	0F	10	--00	123_UNDEFINED	Undefined
124	0F	08	--00	124_UNDEFINED	Undefined
125	0F	04	--00	125_UNDEFINED	Undefined
126	0F	02	--00	126_UNDEFINED	Undefined
127	0F	01	--00	127_UNDEFINED	Undefined
128	10	80	--00	128_IBM_INTERNAL	Assigned to IBM internal use
129	10	40	--00	129_ZVECTOR	Vector Facility for z/Architecture
130	10	20	--00	130_INSTR_EXEC_PROT	Instruction-Execution-Protection Facility
131	10	10	--00	131_ENH_SUPP_ON_PROT_2	Enhanced-Suppression-on-Protection Facility 2
131	10	10	--00	131_SIDE_EFFECT_ACCESS	Side-Effect-Access Facility
132	10	08	--00	132_UNDEFINED	Undefined
133	10	04	--00	133_GUARDED_STORAGE	Guarded-Storage Facility
134	10	02	--00	134_ZVECTOR_PACK_DEC	Vector Packed-Decimal Facility
135	10	01	--00	135_ZVECTOR_ENH_1	Vector-Enhancements Facility 1

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136	11	80	--00	136_UNDEFINED	Undefined
137	11	40	--00	137_UNDEFINED	Undefined
138	11	20	--00	138_CONFIG_ZARCH_MODE	CZAM Facility (Configuration-z/Architecture-Architectural-Mode)
139	11	10	--00	139_MULTIPLE_EPOCH	Multiple-Epoch Facility
140	11	08	--00	140_IBM_INTERNAL	Assigned to IBM internal use
141	11	04	--00	141_IBM_INTERNAL	Assigned to IBM internal use
142	11	02	--00	142_ST_CPU_COUNTER_MULT	Store-CPU-Counter-Multiple Facility
143	11	01	--00	143_UNDEFINED	Undefined
144	12	80	--00	144_TEST_PEND_EXTERNAL	Test-Pending-External-Interruption Facility
145	12	40	--00	145_INS_REF_BITS_MULT	Insert-Reference-Bits-Multiple Facility
146	12	20	--00	146_MSA_EXTENSION_8	Message-Security-Assist Extension 8
147	12	10	--00	147_IBM_RESERVED	Reserved for IBM use
148	12	08	--00	148_VECTOR_ENH_2	Vector-Enhancements Facility 2
149	12	04	--00	149_MOVEPAGE_SETKEY	Move-Page-and-Set-Key Facility
150	12	02	--00	150_ENH_SORT	Enhanced-Sort Facility
151	12	01	--00	151_DEFLATE_CONV	DEFLATE-Conversion Facility
152	13	80	--00	152_VECT_PACKDEC_ENH	Vector-Packed-Decimal-Enhancement Facility
153	13	40	--00	153_IBM_INTERNAL	Assigned to IBM internal use
154	13	20	--00	154_UNDEFINED	Undefined
155	13	10	--00	155_MSA_EXTENSION_9	Message-Security-Assist Extension 9
156	13	08	--00	156_IBM_INTERNAL	Assigned to IBM internal use
157	13	04	--00	157_UNDEFINED	Undefined
158	13	02	--00	158_ULTRAV_CALL	Ultravisor-Call facility
159	13	01	--00	159_UNDEFINED	Undefined
160	14	80	--00	160_UNDEFINED	Undefined
161	14	40	--00	161_SEC_EXE_UNPK	Secure-Execution-Unpack Facility
162	14	20	--00	162_UNDEFINED	Undefined
163	14	10	--00	163_UNDEFINED	Undefined
164	14	08	--00	164_UNDEFINED	Undefined
165	14	04	--00	165_NNET_ASSIST	Neural-Network-Processing-Assist Facility
166	14	02	--00	166_UNDEFINED	Undefined
167	14	01	--00	167_UNDEFINED	Undefined
168	15	80	--00	168_ESA390_COMPAT_MODE	ESA/390-Compatibility-Mode Facility
169	15	40	--00	169_SKEY_REMOVAL	Storage-Key-Removal Facility
170	15	20	--00	170_UNDEFINED	Undefined
171	15	10	--00	171_UNDEFINED	Undefined
172	15	08	--00	172_UNDEFINED	Undefined
173	15	04	--00	173_UNDEFINED	Undefined
174	15	02	--00	174_UNDEFINED	Undefined
175	15	01	--00	175_UNDEFINED	Undefined
176	16	80	--00	176_UNDEFINED	Undefined
177	16	40	--00	177_UNDEFINED	Undefined
178	16	20	--00	178_UNDEFINED	Undefined
179	16	10	--00	179_UNDEFINED	Undefined
180	16	08	--00	180_UNDEFINED	Undefined
181	16	04	--00	181_UNDEFINED	Undefined
182	16	02	--00	182_UNDEFINED	Undefined
183	16	01	--00	183_UNDEFINED	Undefined
184	17	80	--00	184_UNDEFINED	Undefined
185	17	40	--00	185_UNDEFINED	Undefined

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186	17	20	--00	186_UNDEFINED	Undefined
187	17	10	--00	187_UNDEFINED	Undefined
188	17	08	--00	188_UNDEFINED	Undefined
189	17	04	--00	189_UNDEFINED	Undefined
190	17	02	--00	190_UNDEFINED	Undefined
191	17	01	--00	191_UNDEFINED	Undefined
192	18	80	--00	192_VECT_PACKDEC_ENH_2	Vector-Packed-Decimal-Enhancement Facility 2
193	18	40	--00	193_BEAR_ENH	BEAR-Enhancement Facility
194	18	20	--00	194_RESET_DAT_PROT	Reset-DAT-Protection Facility
195	18	10	--00	195_UNDEFINED	Undefined
196	18	08	--00	196_PROC_ACT	Processor-Activity-Instrumentation Facility
197	18	04	--00	197_PROC_ACT_EXT_1	Processor-Activity-Instrumentation Extension 1 Facility
198	18	02	--00	198_UNDEFINED	Undefined
199	18	01	--00	199_UNDEFINED	Undefined
200	19	80	--00	200_UNDEFINED	Undefined
256	20	80	--00	HERC_370_EXTENSION	Hercules S/370 Instruction Extension Facility
257	20	40	Y-11	HERC_DETECT_PGMINTLOOP	Hercules Detect-Program-Interrupt-Loop Support
258	20	20	Y-00	HERC_HOST_RESOURCE_ACCESS	Hercules Host Resource Access Support
259	20	10	--00	HERC_INTERVAL_TIMER	Hercules Interval Timer Support
260	20	08	Y-11	HERC_LOGICAL_PARTITION	Hercules Logical Partition (LPAR) Support
261	20	04	Y-11	HERC_MOVE_INVERSE	Hercules MVCIN Move Inverse Instruction Support
262	20	02	Y-11	HERC_MSA_EXTENSION_1	Hercules Message-Security-Assist Extension 1 Support
263	20	01	Y-11	HERC_MSA_EXTENSION_2	Hercules Message-Security-Assist Extension 2 Support
264	21	80	Y-00	HERC_PROBSTATE_DIAGF08	Hercules Problem-State Diagnose X'F08' Support
265	21	40	Y-00	HERC_QDIO_ASSIST	Hercules QDIO-Assist Support
266	21	20	--00	HERC_QDIO_TDD	Hercules QDIO Time-Delayed-Dispatching Support
267	21	10	--00	HERC_QDIO_THININT	Hercules QDIO Thin-Interrupts Support
268	21	08	--00	HERC_QEBSM	Hercules QDIO Enhanced Buffer-State Management Support
269	21	04	Y-00	HERC_SIGP_SETARCH_S370	Hercules SIGP Set Architecture S/370 Support
270	21	02	--00	HERC_SVS	Hercules SVS Set Vector Summary Instruction Support
271	21	01	Y-00	HERC_VIRTUAL_MACHINE	Hercules Emulate Virtual Machine Support
272	22	80	--00	HERC_TCPIP_EXTENSION	Hercules Access Host TCP/IP Stack Through X'75' Instruction
273	22	40	--00	HERC_TCPIP_PROB_STATE	Hercules Enable X'75' As Problem State Instruction
274	22	20	--00	HERC_ZVM_ESSA	Hercules z/VM ESSA Extract and Set Storage Attributes instruction

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