

z/Arch Facility Table

SRDC* = Supported, Required, Default, Current, Modified.

Bit	By	Bi	SRDC*	Facility	Description
75	09	10	Y-11	075_ACC_EX_FS_INDIC	Access-Exception-Fetch/Store-Indication Facility
6	00	02	Y-11	006_ASN_LX_REUSE	ASN-and-LX-Reuse Facility
12	01	08	Y-00	012_IBM_INTERNAL	Assigned to IBM internal use
15	01	01	Y-00	015_IBM_INTERNAL	Assigned to IBM internal use
39	04	01	Y-00	039_IBM_INTERNAL	Assigned to IBM internal use
46	05	02	Y-00	046_IBM_INTERNAL	Assigned to IBM internal use
55	06	01	Y-00	055_IBM_INTERNAL	Assigned to IBM internal use
59	07	10	Y-00	059_IBM_INTERNAL	Assigned to IBM internal use
60	07	08	Y-00	060_IBM_INTERNAL	Assigned to IBM internal use
62	07	02	Y-00	062_IBM_INTERNAL	Assigned to IBM internal use
63	07	01	Y-00	063_IBM_INTERNAL	Assigned to IBM internal use
64	08	80	Y-00	064_IBM_INTERNAL	Assigned to IBM internal use
65	08	40	Y-00	065_IBM_INTERNAL	Assigned to IBM internal use
69	08	04	Y-00	069_IBM_INTERNAL	Assigned to IBM internal use
70	08	02	Y-00	070_IBM_INTERNAL	Assigned to IBM internal use
71	08	01	Y-00	071_IBM_INTERNAL	Assigned to IBM internal use
72	09	80	Y-00	072_IBM_INTERNAL	Assigned to IBM internal use
82	0A	20	Y-00	082_IBM_INTERNAL	Assigned to IBM internal use
128	10	80	Y-00	128_IBM_INTERNAL	Assigned to IBM internal use
140	11	08	Y-00	140_IBM_INTERNAL	Assigned to IBM internal use
141	11	04	Y-00	141_IBM_INTERNAL	Assigned to IBM internal use
153	13	40	Y-00	153_IBM_INTERNAL	Assigned to IBM internal use
156	13	08	Y-00	156_IBM_INTERNAL	Assigned to IBM internal use
193	18	40	--00	193_BEAR_ENH	BEAR-Enhancement Facility
47	05	01	Y-11	047_CMPSC_ENH	CMPSC-Enhancement Facility
32	04	80	Y-11	032_CSSF	Compare-and-Swap-and-Store Facility 1
33	04	40	Y-11	033_CSSF2	Compare-and-Swap-and-Store Facility 2
10	01	20	Y-11	010_CONDITIONAL_SSKE	Conditional-SSKE Facility
11	01	10	Y-11	011_CONFIG_TOPOLOGY	Configuration-Topology Facility
50	06	20	Y-11	050_CONSTR_TRANSACTION	Constrained-Transactional-Execution 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
138	11	20	--00	138_CONFIG_ZARCH_MODE	CZAM Facility (Configuration-z/Architecture-Architectural-Mode)
3	00	10	Y-11	003_DAT_ENHANCE_1	DAT-Enhancement Facility 1
42	05	20	Y-11	042_DFP	Decimal-Floating-Point Facility
43	05	10	Y-11	043_DFP_HPERF	Decimal-Floating-Point Facility Has High Performance
80	0A	80	--00	080_DFP_PACK_CONV	Decimal-Floating-Point-Packed-Conversion Facility
41	05	40	Y-11	041_DFP_ROUNDING	Decimal-Floating-Point-Rounding Facility
48	06	80	Y-11	048_DFP_ZONE_CONV	Decimal-Floating-Point-Zoned-Conversion Facility
151	12	01	--00	151_DEFLATE_CONV	DEFLATE-Conversion Facility
45	05	04	Y-11	045_DISTINCT_OPERANDS	Distinct-Operands Facility
8	01	80	Y-11	008_EDAT_1	Enhanced-DAT Facility 1
78	09	02	--00	078_EDAT_2	Enhanced-DAT Facility 2
36	04	08	Y-11	036_ENH_MONITOR	Enhanced-Monitor Facility
150	12	02	--00	150_ENH_SORT	Enhanced-Sort Facility
131	10	10	--00	131_ENH_SUPP_ON_PROT_2	Enhanced-Suppression-on-Protection Facility 2
54	06	02	--00	054_EE_CMPSC	Entropy-Encoding-Compression Facility
168	15	80	--00	168_ESA390_COMPAT_MODE	ESA/390-Compatibility-Mode Facility
24	03	80	Y-11	024 ETF2_ENHANCEMENT	ETF2-Enhancement Facility
30	03	02	Y-11	030 ETF3_ENHANCEMENT	ETF3-Enhancement Facility

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35	04	10	Y-11	035_EXECUTE_EXTN	Execute-Extensions Facility
49	06	40	Y-11	049_EXECUTION_HINT	Execution-Hint Facility
21	02	04	Y-11	021_EXTENDED_IMMED	Extended-Immediate Facility
16	02	80	Y-11	016_EXT_TRANSL_2	Extended-Translation Facility 2
22	02	02	Y-11	022_EXT_TRANSL_3	Extended-Translation Facility 3
31	03	01	Y-11	031_EXTRACT_CPU_TIME	Extract-CPU-Time Facility
45	05	04	Y-11	045_FAST_BCR_SERIAL	Fast-BCR-Serialization Facility
37	04	04	Y-11	037_FP_EXTENSION	Floating-Point-Extension Facility
41	05	40	Y-11	041_FPS_ENHANCEMENT	Floating-Point-Support-Enhancement Facility
41	05	40	Y-11	041_FPS_SIGN_HANDLING	Floating-Point-Support-Sign-Handling Facility
41	05	40	Y-11	041_FPR_GR_TRANSFER	FPR-GR-Transfer Facility
34	04	20	Y-11	034_GEN_INST_EXTN	General-Instructions-Extension Facility
133	10	04	--00	133_GUARDED_STORAGE	Guarded-Storage Facility
272	22	80	--00	HERC_TCPIP_EXTENSION	Hercules Access Host TCP/IP Stack Through X'75' Instruction
257	20	40	Y-11	HERC_DETECT_PGMINTLOOP	Hercules Detect-Program-Interrupt-Loop Support
271	21	01	Y-00	HERC_VIRTUAL_MACHINE	Hercules Emulate Virtual Machine Support
273	22	40	--00	HERC_TCPIP_PROB_STATE	Hercules Enable X'75' As Problem State Instruction
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
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
261	20	04	YY11	HERC_MOVE_INVERSE	Hercules MVCIN Move Inverse Instruction Support
264	21	80	Y-00	HERC_PROBSTATE_DIAGF08	Hercules Problem-State Diagnose X'F08' Support
268	21	08	Y-11	HERC_QEBSM	Hercules QDIO Enhanced Buffer-State Management Support
267	21	10	Y-11	HERC_QDIO_THININT	Hercules QDIO Thin-Interrupts Support
266	21	20	Y-00	HERC_QDIO_TDD	Hercules QDIO Time-Delayed-Dispatching Support
265	21	40	Y-00	HERC_QDIO_ASSIST	Hercules QDIO-Assist Support
256	20	80	--00	HERC_370_EXTENSION	Hercules S/370 Instruction Extension Facility
269	21	04	Y-00	HERC_SIGP_SETARCH_S370	Hercules SIGP Set Architecture S/370 Support
270	21	02	Y-11	HERC_SVS	Hercules SVS Set Vector Summary Instruction Support
274	22	20	Y-11	HERC_ZVM_ESSA	Hercules z/VM ESSA Extract and Set Storage Attributes instruction
20	02	08	Y-11	020_HFP_MULT_ADD_SUB	HFP-Multiply-and-Add/Subtract Facility
23	02	01	Y-11	023_HFP_UNNORM_EXT	HFP-Unnormalized-Extensions Facility
45	05	04	Y-11	045_HIGH_WORD	High-Word Facility
5	00	04	--00	005_IDTE_SC_REGTAB	IDTE selective clearing when region-table invalidated
4	00	08	--00	004_IDTE_SC_SEGTAB	IDTE selective clearing when segment-table invalidated
41	05	40	Y-11	041_IEEE_EXCEPT_SIM	IEEE-Exception-Simulation Facility
145	12	40	Y-11	145_INS_REF_BITS_MULT	Insert-Reference-Bits-Multiple Facility
130	10	20	--00	130_INSTR_EXEC_PROT	Instruction-Execution-Protection Facility
45	05	04	Y-11	045_INTERLOCKED_ACCESS_1	Interlocked-Access Facility 1
52	06	08	Y-11	052_INTERLOCKED_ACCESS_2	Interlocked-Access Facility 2
13	01	04	Y-11	013_IPTE_RANGE	IPTE-Range Facility
49	06	40	Y-11	049_LOAD_AND_TRAP	Load-and-Trap Facility
53	06	04	Y-11	053_LOAD_ZERO_RIGHTMOST	Load-and-Zero-Rightmost-Byte Facility
40	05	80	Y-11	040_LOAD_PROG_PARAM	Load-Program-Parameter Facility
45	05	04	Y-11	045_LOAD_STORE_ON_COND_1	Load/Store-on-Condition Facility 1
53	06	04	Y-11	053_LOAD_STORE_ON_COND_2	Load/Store-on-Condition Facility 2
51	06	10	Y-11	051_LOCAL_TLB_CLEARING	Local-TLB-Clearing Facility
18	02	20	YY11	018_LONG_DISPL_INST	Long-Displacement Facility

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19	02	10	Y-11	019_LONG_DISPL_HPERF	Long-Displacement Facility Has High Performance
17	02	40	Y-11	017_MSA	Message-Security Assist
76	09	08	Y-11	076_MSA_EXTENSION_3	Message-Security-Assist Extension 3
77	09	04	Y-11	077_MSA_EXTENSION_4	Message-Security-Assist Extension 4
57	07	40	--00	057_MSA_EXTENSION_5	Message-Security-Assist Extension 5
146	12	20	--00	146_MSA_EXTENSION_8	Message-Security-Assist Extension 8
155	13	10	--00	155_MSA_EXTENSION_9	Message-Security-Assist Extension 9
49	06	40	Y-11	049_MISC_INSTR_EXT_1	Miscellaneous-Instruction-Extensions Facility 1
58	07	20	Y-11	058_MISC_INSTR_EXT_2	Miscellaneous-Instruction-Extensions Facility 2
61	07	04	Y-11	061_MISC_INSTR_EXT_3	Miscellaneous-Instruction-Extensions Facility 3
149	12	04	--00	149_MOVEPAGE_SETKEY	Move-Page-and-Set-Key Facility
27	03	10	Y-11	027_MVCOS	Move-with-Optional-Specifications Facility
139	11	10	--00	139_MULTIPLE_EPOCH	Multiple-Epoch Facility
0	00	80	Y-11	000_N3_INSTR	N3 Instructions are installed
165	14	04	--00	165_NNET_ASSIST	Neural-Network-Processing-Assist Facility
14	01	02	Y-11	014_NONQ_KEY_SET	Nonquiescing Key-Setting Facility
38	04	02	--00	038_OP_CMPSC	Order-Preserving-Compression Facility
26	03	20	Y-11	026_PARSING_ENHANCE	Parsing-Enhancement Facility
44	05	08	Y-11	044_PFPO	PFPO (Perform Floating-Point Operation) Facility
45	05	04	Y-11	045_POPULATION_COUNT	Population-Count Facility
81	0A	40	Y-11	081_PPA_IN_ORDER	PPA-in-order Facility
197	18	04	--00	197_PROC_ACT_EXT_1	Processor-Activity-Instrumentation Extension 1 Facility
196	18	08	--00	196_PROC_ACT	Processor-Activity-Instrumentation Facility
49	06	40	Y-11	049_PROCESSOR_ASSIST	Processor-Assist Facility
147	12	10	Y-00	147_IBM_RESERVED	Reserved for IBM use
194	18	20	--00	194_RESET_DAT_PROT	Reset-DAT-Protection Facility
66	08	20	Y-11	066_RES_REF_BITS_MULT	Reset-Reference-Bits-Multiple Facility
161	14	40	--00	161_SEC_EXE_UNPK	Secure-Execution-Unpack Facility
9	01	40	Y-11	009_SENSE_RUN_STATUS	Sense-Running-Status Facility
131	10	10	--00	131_SIDE_EFFECT_ACCESS	Side-Effect-Access Facility
169	15	40	--00	169_SKEY_REMOVAL	Storage-Key-Removal Facility
25	03	40	Y-11	025_STORE_CLOCK_FAST	Store-Clock-Fast Facility
142	11	02	--00	142_ST_CPU_COUNTER_MULT	Store-CPU-Counter-Multiple Facility
7	00	01	Y-11	007_STFL_EXTENDED	Store-Facility-List-Extended Facility
74	09	20	Y-11	074_STORE_HYPER_INFO	Store-Hypervisor-Information Facility
144	12	80	--00	144_TEST_PEND_EXTERNAL	Test-Pending-External-Interruption Facility
28	03	08	Y-11	028_TOD_CLOCK_STEER	TOD-Clock-Steering Facility
73	09	40	Y-11	073_TRANSACTION_EXEC	Transactional-Execution Facility
158	13	02	--00	158_ULTRAV_CALL	Ultravisor-Call facility
29	03	04	Y-00	029_UNDEFINED	Undefined
56	07	80	Y-00	056_UNDEFINED	Undefined
79	09	01	Y-00	079_UNDEFINED	Undefined
83	0A	10	Y-00	083_UNDEFINED	Undefined
84	0A	08	Y-00	084_UNDEFINED	Undefined
85	0A	04	Y-00	085_UNDEFINED	Undefined
86	0A	02	Y-00	086_UNDEFINED	Undefined
87	0A	01	Y-00	087_UNDEFINED	Undefined
88	0B	80	Y-00	088_UNDEFINED	Undefined
89	0B	40	Y-00	089_UNDEFINED	Undefined
90	0B	20	Y-00	090_UNDEFINED	Undefined

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91	0B	10	Y-00	091_UNDEFINED	Undefined
92	0B	08	Y-00	092_UNDEFINED	Undefined
93	0B	04	Y-00	093_UNDEFINED	Undefined
94	0B	02	Y-00	094_UNDEFINED	Undefined
95	0B	01	Y-00	095_UNDEFINED	Undefined
96	0C	80	Y-00	096_UNDEFINED	Undefined
97	0C	40	Y-00	097_UNDEFINED	Undefined
98	0C	20	Y-00	098_UNDEFINED	Undefined
99	0C	10	Y-00	099_UNDEFINED	Undefined
100	0C	08	Y-00	100_UNDEFINED	Undefined
101	0C	04	Y-00	101_UNDEFINED	Undefined
102	0C	02	Y-00	102_UNDEFINED	Undefined
103	0C	01	Y-00	103_UNDEFINED	Undefined
104	0D	80	Y-00	104_UNDEFINED	Undefined
105	0D	40	Y-00	105_UNDEFINED	Undefined
106	0D	20	Y-00	106_UNDEFINED	Undefined
107	0D	10	Y-00	107_UNDEFINED	Undefined
108	0D	08	Y-00	108_UNDEFINED	Undefined
109	0D	04	Y-00	109_UNDEFINED	Undefined
110	0D	02	Y-00	110_UNDEFINED	Undefined
111	0D	01	Y-00	111_UNDEFINED	Undefined
112	0E	80	Y-00	112_UNDEFINED	Undefined
113	0E	40	Y-00	113_UNDEFINED	Undefined
114	0E	20	Y-00	114_UNDEFINED	Undefined
115	0E	10	Y-00	115_UNDEFINED	Undefined
116	0E	08	Y-00	116_UNDEFINED	Undefined
117	0E	04	Y-00	117_UNDEFINED	Undefined
118	0E	02	Y-00	118_UNDEFINED	Undefined
119	0E	01	Y-00	119_UNDEFINED	Undefined
120	0F	80	Y-00	120_UNDEFINED	Undefined
121	0F	40	Y-00	121_UNDEFINED	Undefined
122	0F	20	Y-00	122_UNDEFINED	Undefined
123	0F	10	Y-00	123_UNDEFINED	Undefined
124	0F	08	Y-00	124_UNDEFINED	Undefined
125	0F	04	Y-00	125_UNDEFINED	Undefined
126	0F	02	Y-00	126_UNDEFINED	Undefined
127	0F	01	Y-00	127_UNDEFINED	Undefined
132	10	08	Y-00	132_UNDEFINED	Undefined
136	11	80	Y-00	136_UNDEFINED	Undefined
137	11	40	Y-00	137_UNDEFINED	Undefined
143	11	01	Y-00	143_UNDEFINED	Undefined
154	13	20	Y-00	154_UNDEFINED	Undefined
157	13	04	Y-00	157_UNDEFINED	Undefined
159	13	01	Y-00	159_UNDEFINED	Undefined
160	14	80	Y-00	160_UNDEFINED	Undefined
162	14	20	Y-00	162_UNDEFINED	Undefined
163	14	10	Y-00	163_UNDEFINED	Undefined
164	14	08	Y-00	164_UNDEFINED	Undefined
166	14	02	Y-00	166_UNDEFINED	Undefined
167	14	01	Y-00	167_UNDEFINED	Undefined

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170	15	20	Y-00	170_UNDEFINED	Undefined
171	15	10	Y-00	171_UNDEFINED	Undefined
172	15	08	Y-00	172_UNDEFINED	Undefined
173	15	04	Y-00	173_UNDEFINED	Undefined
174	15	02	Y-00	174_UNDEFINED	Undefined
175	15	01	Y-00	175_UNDEFINED	Undefined
176	16	80	Y-00	176_UNDEFINED	Undefined
177	16	40	Y-00	177_UNDEFINED	Undefined
178	16	20	Y-00	178_UNDEFINED	Undefined
179	16	10	Y-00	179_UNDEFINED	Undefined
180	16	08	Y-00	180_UNDEFINED	Undefined
181	16	04	Y-00	181_UNDEFINED	Undefined
182	16	02	Y-00	182_UNDEFINED	Undefined
183	16	01	Y-00	183_UNDEFINED	Undefined
184	17	80	Y-00	184_UNDEFINED	Undefined
185	17	40	Y-00	185_UNDEFINED	Undefined
186	17	20	Y-00	186_UNDEFINED	Undefined
187	17	10	Y-00	187_UNDEFINED	Undefined
188	17	08	Y-00	188_UNDEFINED	Undefined
189	17	04	Y-00	189_UNDEFINED	Undefined
190	17	02	Y-00	190_UNDEFINED	Undefined
191	17	01	Y-00	191_UNDEFINED	Undefined
195	18	10	Y-00	195_UNDEFINED	Undefined
198	18	02	Y-00	198_UNDEFINED	Undefined
199	18	01	Y-00	199_UNDEFINED	Undefined
200	19	80	Y-00	200_UNDEFINED	Undefined
129	10	40	--00	129_ZVECTOR	Vector Facility for z/Architecture
134	10	02	--00	134_ZVECTOR_PACK_DEC	Vector Packed-Decimal Facility
135	10	01	--00	135_ZVECTOR_ENH_1	Vector-Enhancements Facility 1
148	12	08	--00	148_VECTOR_ENH_2	Vector-Enhancements Facility 2
152	13	80	--00	152_VECT_PACKDEC_ENH	Vector-Packed-Decimal-Enhancement Facility
192	18	80	--00	192_VECT_PACKDEC_ENH_2	Vector-Packed-Decimal-Enhancement Facility 2
2	00	20	YY11	002_ZARCH_ACTIVE	z/Architecture architectural mode is active
1	00	40	YY11	001_ZARCH_INSTALLED	z/Architecture architectural mode is installed

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