

FLOATING CONTROL

DFCMG	427	Double Precision Floating Compare Magnitude
DFCMP	517	Double Precision Floating Compare
FCMG	425	Floating Compare Magnitude
FCMP	515	Floating Compare
FZSN	430	Floating Set Zero and Negative indicators

CHARACTER SET

GE	Card	Octal	Ptr	GE	Card	Octal	Ptr
0	0	00	0	↑	11-0	40	↑
1	1	01	1	J	11-1	41	J
2	2	02	2	K	11-2	42	K
3	3	03	3	L	11-3	43	L
4	4	04	4	M	11-4	44	M
5	5	05	5	N	11-5	45	N
6	6	06	6	O	11-6	46	O
7	7	07	7	P	11-7	47	P
8	8	10	8	Q	11-8	50	Q
9	9	11	9	R	11-9	51	R
⌈	2-8	12	⌈	-	11	52	-
#	3-8	13	#	\$	11-3-8	53	\$
@	4-8	14	@	*	11-4-8	54	*
∨	5-8	15	∨)	11-5-8	55)
?	6-8	16	?	;	11-6-8	56	;
Blank	7-8	17	?	'	11-7-8	57	'
A	12-1	21	A	+	12-0	60	+
B	12-2	22	B	/	0-1	61	/
C	12-3	23	C	S	0-2	62	S
D	12-4	24	D	T	0-3	63	T
E	12-5	25	E	U	0-4	64	U
F	12-6	26	F	V	0-5	65	V
G	12-7	27	G	W	0-6	66	W
H	12-8	30	H	X	0-7	67	X
I	12-9	31	I	Y	0-8	70	Y
&	12	32	&	Z	0-9	71	Z
.	12-3-8	33	.	←	0-2-8	72	←
⌋	12-4-8	34	⌋	, %	0-3-8	73	, %
(12-5-8	35	(=	0-4-8	74	=
∧	12-6-8	36	∧	"	0-5-8	75	"
∖	12-7-8	37	∖	!	0-6-8	76	!
				!	0-7-8	77	!

GE-625/635 Reference Card



ARITHMETIC

Code	Address	Description
ADD		
ADA	075	to Accumulator
ADQ	076	to Quotient register
ADAQ	077	to A-Q register
ADXn	06n	to Index register n
ADL	033	Low to A-Q register
ADLA	035	Logical to Accumulator
ADLQ	036	Logical to Quotient register
ADLAQ	037	Logical to A-Q register
ADLXn	02n	Logical to Index register n
AOS	054	One to Storage
ASA	055	Stored to Accumulator
ASQ	056	Stored to Quotient register
ASXn	04n	Stored to Index register n
AWCA	071	With Carry to Accumulator
AWCQ	072	With Carry to Quotient register
DIVIDE		
DIV	506	Divide integer
DVF	507	Divide Fraction
MULTIPLY		
MPF	401	Multiply Fraction
MPY	402	Multiply integer
NEGATE		
NEG	531	Negate accumulator
NEGL	533	Negate Long
SUBTRACT		
SBA	175	from Accumulator
SBQ	176	from Quotient register
SBAQ	177	from A-Q register
SBXn	16n	from Index register n
SBLA	135	Logical from Accumulator
SBLQ	136	Logical from Quotient register
SBLAQ	137	Logical from A-Q register
SBLXn	12n	Logical from Index register n
SSA	155	Stored from Accumulator
SSQ	156	Stored from Quotient register
SSXn	14n	Stored from Index register
SWCA	171	with Carry to Accumulator
SWCQ	172	with Carry to Quotient register

DATA MOVEMENT

Code	Address	Description
LOAD		
LBAR	230	Base Address Register
LCA	335	Complement into Accumulator
LCQ	336	Complement into Quotient register
LCAQ	337	Complement into A-Q register
LCXn	32n	Complement into Index register n
LDA	235	Accumulator
LDQ	236	Quotient register
LDAQ	237	A-Q register
LDXn	22n	Index register n
LDI	634	Indicator register
LDT	637	Timer register
LREG	073	Registers
STORE		
SBAR	550	Base Address Register
SREG	753	Registers
STA	755	Accumulator

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STAQ	757	A-Q register
STBA	551	9-bit characters of Accumulator
STBQ	552	9-bit characters of Q register
STCA	751	6-bit characters of Accumulator
STCQ	752	6-bit characters of Q register
STC1	554	Instruction Counter + 1 and indicators
STC2	750	Instruction Counter + 2
STI	754	Indicator register
STQ	756	Quotient register
STT	454	Timer register
STXn	74n	Index register
STZ	450	Zero

SHIFT

ALS	735	Accumulator Left Shift
ALR	775	Accumulator Left Rotate
ARS	731	Accumulator Right Shift
ARL	771	Accumulator Right Logical
QLS	736	Quotient register Left Shift
QLR	776	Quotient register Left Rotate
QRS	732	Quotient register Right Shift
QRL	772	Quotient register Right Logical
LLS	737	Long Left Shift
LLR	777	Long Left Rotate
LRS	733	Long Right Shift
LRL	773	Long Right Logical

LOGICAL

AND

ANA	375	to Accumulator
ANQ	376	to Quotient register
ANAQ	377	to A-Q register
ANXn	36n	to Index register
ANSA	355	to Storage Accumulator
ANSQ	356	to Storage Quotient register
ANSXn	34n	to Storage Index register n

EXCLUSIVE OR

ERA	675	to Accumulator
ERQ	676	to Quotient register
ERAQ	677	to A-Q register
ERXn	66n	to Index register n
ERSA	655	to Storage Accumulator
ERSQ	656	to Storage Q register
ERSXn	64n	to Storage Index register n

OR

ORA	275	to Accumulator
ORQ	276	to Quotient register
ORAQ	277	to A-Q register
ORXn	26n	to Index register n
ORSA	255	to Storage Accumulator
ORSQ	256	to Storage Quotient register
ORSXn	24n	to Storage Index register n

COMPARATIVE AND

CANA	315	with Accumulator
CANQ	316	with Quotient register
CANAQ	317	with A-Q register
CANXn	30n	with Index register n

COMPARE

CMG	405	Compare Magnitude
CMK	211	Compare Masked

COMPARE WITH

CMPA	115	Accumulator
CMPQ	116	Quotient register
CMPAQ	117	A-Q register
CMPXn	10n	Index register n
CWL	111	Limits

COMPARATIVE NOT

CNAA	215	with Accumulator
CNAQ	216	with Quotient register
CNAAQ	217	with A-Q register
CNAXn	20n	with Index register n

SPECIAL INSTRUCTIONS

BCD	505	Binary to Binary Coded Decimal
CIOC	015	Connect I/O Channel
DRL	002	Derail
EAA	635	Effective Address to Accumulator
EAQ	636	Effective Address to Q register
EAXn	62n	Effective Address to Index register n
GTB	774	Gray to Binary
MME	001	Master Mode Entry
RMCM	233	Read Memory Controller Mask register
RMFP	633	Read Memory File Protect register
RPD	560	Repeat Double
RPL	500	Repeat Link
RPT	520	Repeat
SMCM	553	Set Memory Controller Mask register
SMFP	453	Set Memory File Protect register
SMIC	451	Set Memory controller Interrupt Cells

CONTROL

DIS	616	Delay until Interrupt Signal
NOP	011	No Operation
RET	630	Return and set indicators
SZN	234	Set Zero and Negative ind. from storage

TRANSFER ON

TEO	614	Exponent Overflow
TEU	615	Exponent Underflow
TMI	604	Minus
TPL	605	Plus
TNC	602	No Carry
TRC	603	Carry
TNZ	601	Not Zero
TOV	617	Overflow
TRA	710	Unconditionally
TTF	607	Tally run-out Ind. off
TZE	600	Zero
TSS	715	Transfer and Set Slave
TSXn	70n	Transfer and Set Index register n
XEC	716	Execute
XED	717	Execute Double

FLOATING DATA MOVEMENT

DFLD	433	Double Precision Floating Load
FLD	431	Floating Load
DFST	457	Double Precision Floating Store
FST	455	Floating Store
LDE	411	Load Exponent register
STE	456	Store Exponent register

FLOATING ARITHMETIC

ADE	415	Add to Exponent register
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DOUBLE PRECISION

DFAD	477	Floating Add
DUFA	437	Unnormalized Floating Add
DFDI	527	Floating Divide Inverted
DFDV	567	Floating Divide
DFMP	463	Floating Multiply
DUFM	423	Unnormalized Floating Multiply
DFSB	577	Floating Subtract
DUFS	537	Unnormalized Floating Subtract
FNEG	513	Floating Negate
FNO	573	Normalize

SINGLE PRECISION

FAD	475	Add
UFA	435	Unnormalized Floating Add
FDV	565	Divide
FDI	525	Divide Inverted
FMP	461	Multiply
UFM	421	Unnormalized Floating Multiply
FSB	575	Subtract
UFS	535	Unnormalized Floating Subtract