

12 December 1967

Results of Executing Illegal Op Codes
on the GE 625

All op codes were executed in SLAVE mode:

System Malfunctions:

OP No. 153 - System hangs on processor and memory busy cycle.
No response from console.

540, 541, 542 Cause processor hang up repeating
instruction. Gain control by manually hitting
initialize and boot load buttons on console.

OP not complete. F8 abort to job, not system.

OP No. 53, 57, 150, 154, 157, 173, 213, 253, 257, 350, 354,
357, 412, 422, 426, 432, 434, 436, 462, 466, 476, 512,
516, 521, 522, 523, 526, 532, 534, 536, 543, 544, 545,
546, 547, 556, 561-564, 566, 570, 574, 576, 631, 650,
653, 657, 654, 671, 727, 730.

Illegal op codes, F7 abort.

OP No. 0, 4, 5, 6, 7, 14, 16, 17, 373, 713, 725, 726

No fault, no modifications to variables and/or registers.

OP No. 10, 12, 13, 30, 31, 32, 34, 70, 74, 110, 112-114,
130-134, 151, 152, 170, 174, 210, 212, 214, 254, 273,
274, 330, 310-314, 331, 334, 351, 352, 371, 374, 410,
414, 416, 465, 467, 530, 606, 610-613, 632, 734, 452,
571, 572, 760-767, 557, 672-674, 720-724, 770.

Variable field zeroized after execution.

OP No. 50, 51, 52, 250-252, 555.

A register changed after execution.

OP No. 231, 270, 271, 333, 370, 403, 504.

Q register changed.

OP. No. 232, 272, 332, 333, 372, 403.

MO abort.

OP No. 353.

Generates memory faults due to address beyond bar, but may be
valid depending on address of bar.

OP No. 400, 413, 417, 420, 501-503, 460.

A register to zero.
OP No. 404, 406, 424, 464, 524.

Q register to zero.
OP No. 407, 510, 511, 524.

Random aborts.
OP No. 470-474.

Variable field changed.
OP No. 651, 652.

Transfer.
OP No. 670, 714, 711, 712.

Derail fault 003

from
LL

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Exp. 1/24
625