

SQA/ESQA Shortage

System Messages displayed on console

- 1) **IGVH100E ESQA has exceeded the threshold percentage of 80%.
Current allocation is 82% of 14904K. Unallocated amount is 2633K bytes.**

Explanation: CHECK (IBMVSM, VSM_SQA_THRESHOLD) or CHECK (IBMVSM, VSM_CSA_THRESHOLD) determined that the current allocation of SQA, ESQA, CSA or ECSA is greater than check-owner or installation threshold.

- 2) **IRA103I SQA/ESQA HAS EXPANDED INTO CSA/ECSA BY 1 PAGE**

Explanation: One of the following conditions occurred:

- a) The system allocated pages of virtual storage from the common service area (CSA) to satisfy a request for virtual storage for the system queue area (SQA)
- b) The system allocated pages of virtual storage from the extended CSA (ECSA) to satisfy a request for virtual storage for the extended system queue area (ESQA)

Both the System messages given above are normally caused by SQA/ESQA shortage. The possible reasons and solutions are given below.

1. During IPL if the message 'IEA311I UNLABELED DASD ON device' is issued many times the ESQA storage needs are increased and this leads to a shortage of available ESQA. The messages can be avoided by making the unlabeled DASD's offline.
2. When the maximum number of shared pages in UNIX used for fork, shared memory, memory map files etc. is not sufficient. This can be resolved by increasing the value of the MAXSHAREPAGES parameter in the UNIX environment.
3. If the storage constraint is not due to the above factors then determine the additional SQA required by multiplying the number of address spaces in the system by 1608 bytes. Make the corresponding change in the INITSQA value in the LOADxx or the IEASYSxx member in the respective Parmlib.

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