

Sample Questions with Answers

Programming Languages - Mainframe

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Programming Languages

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Question 1:

What do you do to resolve SOC-7 error?

[ANSWER] Answer & Explanation:

- Offending data need to be corrected - The main cause for SOC-7 error is un-initialized numeric item. Focus on examining on this. - Lot of installations provide a dump for run time abends, and these abends provide the offset which is returned by the last instruction where the abend occurred. - Focus on examining the compilation output XREF listing to find the verb and the line number within the source code at this offset. - Later investigate the source code for finding the bug - Define certain datasets(SYSABOUT etc) in JCL, for capturing runtime dumps - At times few installations might have batch program debugging tool. Utilize them to resolve the issue.

Question 2:

What is AMODE(24), AMODE(31), RMODE(24) and RMODE(ANY)? (Applicable to onlyMVS/ESA Enterprise Server).

[ANSWER] Answer & Explanation:

These are the options of compile/link editing - AMODE : Addressing Mode - AMODE(24) : It is a 24 bit addressing mode - AMODE(31) : It is a 31 bit addressing mode - AMODE(ANY) : Either 24 bit or 31 bit address mode depending upon RMODE - RMODE : Resident mode - RMODE(24) : It resides within virtual storage below 16 Meg line. a Programs of 31 bit which call 24 bit programs, are preferred to use this mode. b RMODE(ANY) : Either 24 bit or 31 bit address mode depending upon RMODE c OS/VS COBOL program use 24 bit address only - RMODE(ANY) : This mode can reside below or above 16 Meg line

Question 3:

What's a LDS(Linear Data Set) and what's it used for ?

[ANSWER] Answer & Explanation:

LDS is a VSAM dataset in name only. It has unstructured 4k (4096 bytes) fixed size CIs which do not contain control fields and therefore from VSAM's standpoint they do not contain any logical records. There is no freespace, and no access from Cobol. Can be accessed by DB2 and IMS fast path datasets. LDS is essentially a table of data maintained on disk. The 'table entries' must be created via a user program and can only be logically accessed via a user program. When passed, the entire LDS must be mapped into storage, then data is accessed via base and displacement type processing.

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