DOK	-0127
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/,	$\Omega$



## / +1551 GNM FNI # DJ Date: 09/10/21 Lugion#01: Explain the coles of longiler and OS in exenting a HIL (High level language) program from a tent file why is the process of linking performed. Answer: binary woods 10's and 1's). The US looder takes this exacutable file weated by assemble 15 the main memory and branches the CPU Towards Starting address and the program is then executed. The linker is U used to link executed. The boker procedures from a library that is coilled lugion # 02: Explain the worten's of Beyment registers in Real memory adollering mode and Published mode.

The segment segisters hold pointers to memory segment, in seal memory addition mode, it points to base addingsing of the lassigned memory areas.

Dur.
In profested mode, the segment legister
In profested mode, the segment legisless hold pointers 15 descriptor lable, the location he descriptor jable describes the location largeth and curess legisles of memory segments
The desired to table cleurities the locale
The description passe cases the rectarion
langin and cilless sights of memory
segrens,
Service Control of the Control of th
Question +D3
a) Segment: ABDE H
045et: 5089 h
Réal address: ?
Segment × 10: ABDEO + offset + 5D89
+ offset + 5089
30 E 6.9
b) Segment: BFE3h Offset:?
Offset:
Real address: A835Fh
Offset = (Real address) - (Segment + 10)
= A835F - 8FE3Q
9 7
A8 35 F
-8 F E 3 D
1 & \$5 2 F

Same and the same
Date:
F) Segment: 7
Jeset: 5F6Dh
- Disset: 5EbD H - Real Address: FF41DH
Sol=:
R. Addhus : (Segment x 10) + Offset
R. Addres - Offsol - Segment
FF41D
- 5 E 6 D
F 9 5 BO
- 10
F95B
The Beyment Address is F95B.
2) Serment: ? Diffset: ? Real Address: ASBDD L.
Offset: ?
Real Address: ASBDD L.
Since we have the real address
therefore we can suppose values of
Therefore we can suppose yours of Seprent & Offset.
Jet gement Offset: 1ATC Diffset: 2FD;
Offeet = 11-10
Differ: 21)
THE PARCE DROUBLE

Date:
Duylion + 04
Employer in your own words, why class file
of JAVA is platform independent;
whereas exculable files (Mouhine vode)
generaled on Java is plat (our
generaled on Java is plat form independent
When a program written in Jowe is
compiled. The compiler worker & it into
- lile his
- byle vode is platform independ to
- recourse the Transcourse 1755ame for
- las OS.
- This byte ware is workerled into
- Marting work by JVra (Java Virtual
Mautine). The Jum is planform
expendent and it worres the
Mautine). The Junis plantoum dependent and it worrests the giver byte wade into the martine geadable form and how different implementation for different OS.
gladable form and how different
imprementation por dy jeve it US.

Scanned with CamScanner

10 Duestion # 05

Disugs the similar lies and difference between seal address mode and Virtual-2026

Similar lies:

The seal address mode & 2086 mode:

gives only I MIB of accessible mode:

To that programs for execution.

To For Fig. Programs like M5-XX.

Difference:

In lead address mode, the programs car
access any part of memory while
while of prolected mode where only
I MiB of memory is accessible for
the program.

In each address mode, he purjean can course the Operating 15 dominands of presponding 15 dominands whereas in 8086 visitual mode the program inastes but Operating system doesnot.

Duestion #106 Employer the purpose of working flags and status flags. Cortion flogs: lortion flags determine how institutions are carried out. These plags include: Diestron flag:- appeils the diestron of block data liansfer

Interrupt flag:- Deserving whether interrupt

can pourse

Trap flag:- Interrume whether CPU is

malled of the every institution. of dyperant auxmostie toperations. These Camplag: show if there exists camp ii) Drenton Alog when the result is large 18) 1:1-1) for flag: show if the number is negative or posting

1) Tero flag: show if the result is zero

1) Aunition flag: Jours if there is a compar

1) Annilian flag: Jours if there is a compar 10 Parky flag straid the result is ever painty