

Q₁: Type-1 vs -2.

Q₂: User- vs. System-level

Q₃: Full- vs. Para-virtualization

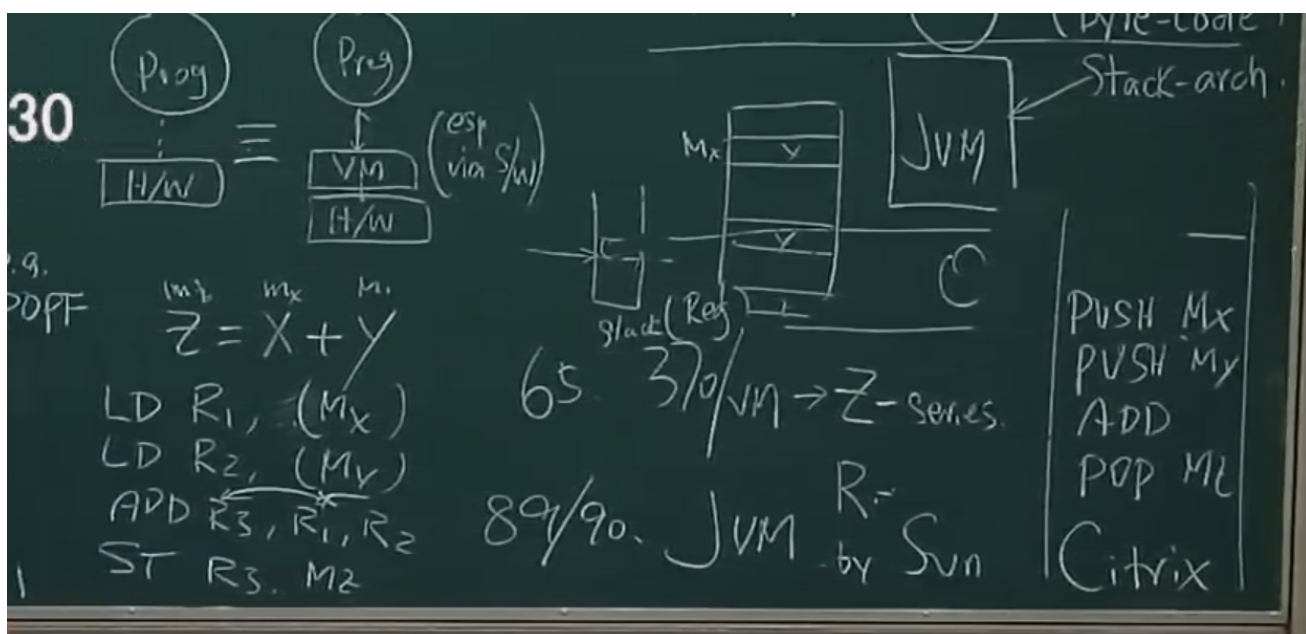
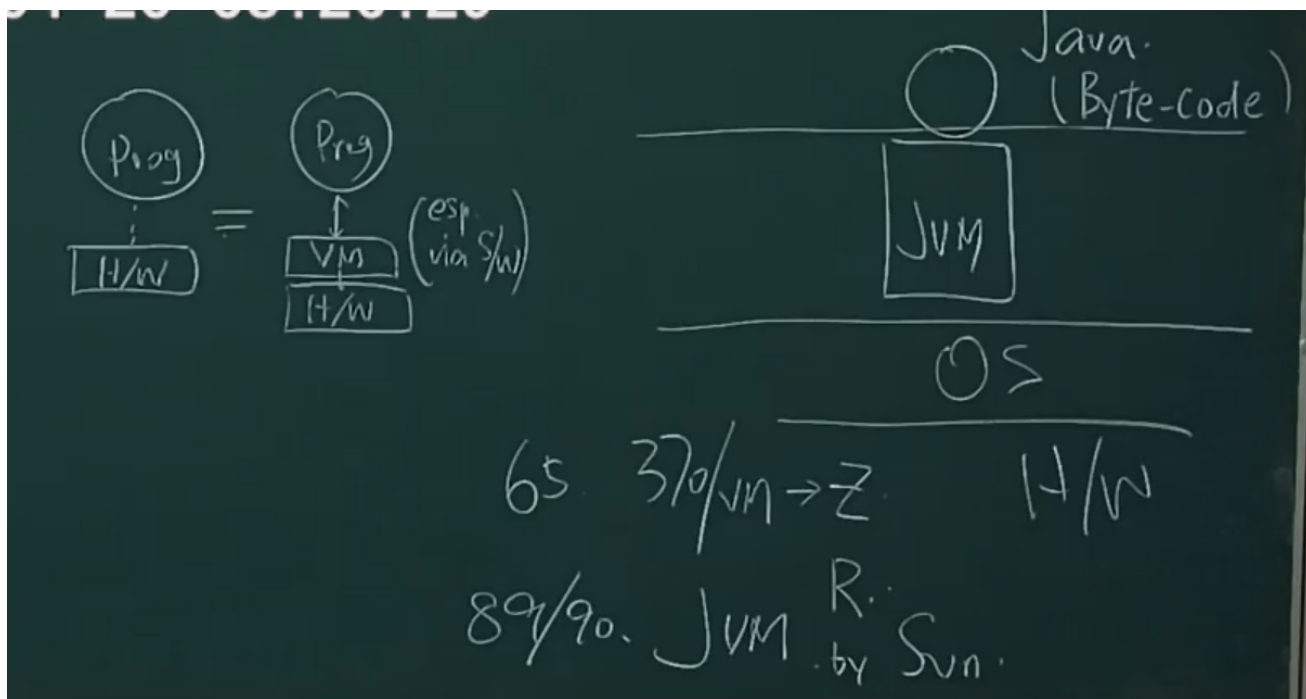
Q₄: Is an OS a VM?

2000. VMWare vs. Xen

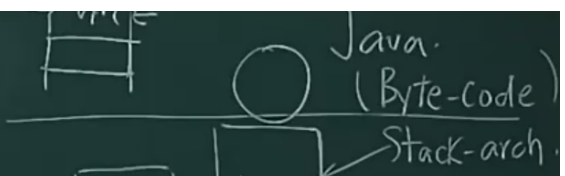
2003. DBT (WS, GSX, ESX)

2007. KVM. RHEL5.x { KVM
Xen

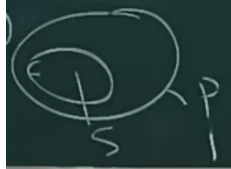
2010 \geq RHEL6 only
KVM



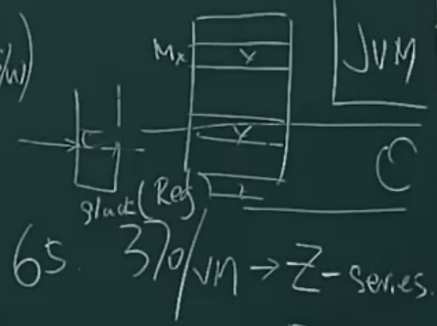
2020-01-20 00:20:01
 Machi $\xrightarrow{Y_n, I_n, ans.} \rightarrow$



Goldenberg
 1974
 e.g.
 ire instr.: POPF
 ge. Instr. \rightarrow



$\frac{1}{N} \left(\begin{smallmatrix} esp \\ via S/W \end{smallmatrix} \right)$
 $Z = X + Y$
 $m_1 \quad m_x \quad m_i$
 LD R₁, (M_x)
 LD R₂, (M_y)
 ADD R₃, R₁, R₂
 ST R₃, M_z



65 370/JM \rightarrow Z-series.
 89/90. JVM R- by Sun

PUSH M_x
 PUSH M_y
 ADD
 POP M_z
 Citrix