HPI Hasso Plattner Institut

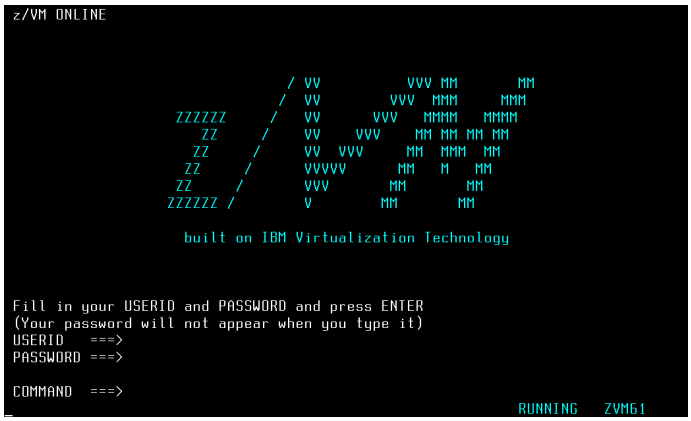
IT Systems Engineering | Universität Potsdam

Exercise 3: z/VM

Server Operating Systems 2011

Connect to our Mainframe

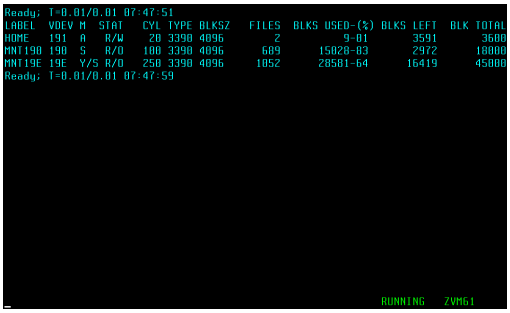
- Start your emulator and connect to 172.16.21.93 at port 23



Task 1: Login and format disk a

3

1. Connect to our mainframe
2. Fill out the form and submit with Ctrl
   - initial password: test
3. Execute **format 191 a** and call it **HOME**
4. Re-Login and look at your minidisks



Task 2: Send us a file

4

1. Create a file with XEDIT
2. Send the user IBMUSER this file into his card reader with http://publib.boulder.ibm.com/infocenter/zvm/v6r1/index.jsp?topic=/com.ibm.zvm.v610.dmsb4/sfl.htm

Task 3: Explore your VM

5

1. Figure out:
   1. how much storage your VM can use?
   2. how many CPUs it can have?
   3. what other devices it has and which additional ones you can add?

- Command Overview:
  - http://publib.boulder.ibm.com/infocenter/zvm/v6r1/topic/com.ibm.zvm.v610.hcpb7/chap1.htm#chap1

Task 4: Trace your VM

6

1. Trace the supervisor call instructions executed when creating a file
2. Based on http://publib.boulder.ibm.com/infocenter/zvm/v6r1/topic/com.ibm.zvm.v610.hcpb2/tr5a.htm#tr5a create a trace trap for the SVC instruction
   - http://publib.boulder.ibm.com/infocenter/zvm/v6r1/topic/com.ibm.zvm.v610.hcpb2/option.htm explains some general options of the trace command, e.g. whether to stop or where the output should go
3. Create a file like in task 2
4. Stop the tracing and look at the log
5. Why do you need supervisor calls when creating a file?