




HPI Hasso Plattner Institut
IT Systems Engineering | Universität Potsdam

Exercise 2: Running Jobs

Server Operating Systems 2011



Task 1: Run a Job

2

1. Copy the following JCL code into a member
<your username>.Exer2.Task1:
//DEMO JOB STEFAN,MSGCLASS=X
//STEP1 EXEC PGM=IEFBR14
2. Save and submit the file
3. Find the log of the job in SDSF (in the Menu under M.5)

Server Operating Systems 2011 | Stefan Richter | 11/05/2011

Task 2: Create a Data Set with JCL



3

1. Write your own JCL job, that creates a data set:
 - ◇ Name: <your username>.Exer2.Task2
 - ◇ Other options like in Exercise 1
2. Submit it and look at the SDSF output

Server Operating Systems 2011 | Stefan Richter | 11/05/2011


Task 2: Solution



4

```
■ JCL:
//DEMO JOB STEFAN,MSGCLASS=X
//STEP1 EXEC PGM=IEFBR14
//DD1 DD DSN=IBMUSER.SOS2011.DS1,DISP=(NEW,CATLG),
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=32000,DSORG=PO),
//      VOLUME=SER=WORK01,
//      SPACE=(TRK,(1,1,1))
```

Server Operating Systems 2011 | Stefan Richter | 11/05/2011




Task 3a: Hello World in Cobol

5

1. Based on http://publib.boulder.ibm.com/infocenter/pdthelp/v1r1/index.jsp?topic=/com.ibm.entcobol.doc_4.2/PGandLR/ref/rpmvs06.htm write a JCL to compile your COBOL program and write it in <your username>.Exer2.Task3(JCL)
2. Create a 'Hello World' program in Cobol and save the source code in <your username>.Exer2.Task3(Code)
3. Compile and run it
4. It should output 'Hello World!'

Note: the record format for the compiler output needs be U.

Server Operating Systems 2011 | Stefan Richter | 11/05/2011



Task 3a: Solution

6

- JCL:


```
//COMPCOBO JOB STEFAN,MSGCLASS=X
//STEP1 EXEC IGYWCL
//COBOL.SYSIN DD DSN=&SYSUID..SOS2011.CODE(COBOL),DISP=SHR
//LKED.SYSLMOD DD DSN=&SYSUID..SOS2011.LOAD,DISP=SHR
//LKED.SYSIN DD *
    NAME COBOL@
/*
```
- Cobol (note that the first letter is in the 8th column):


```
IDENTIFICATION DIVISION.
PROGRAM-ID. HELLOWORLD.
PROCEDURE DIVISION.
    DISPLAY "Hello world!".
STOP RUN.
```

Server Operating Systems 2011 | Stefan Richter | 11/05/2011




Task 3b: Hello World in PL/I

7

1. Based on http://publib.boulder.ibm.com/infocenter/pdthelp/v1r1/index.jsp?topic=/com.ibm.entpli.doc_4.1/pg/ibma1d31002655.htm write a JCL to compile your PL/I code and write it in <your username>.Exer2.Task3(JCL)
2. Create a 'Hello World' program in PL/I and save the source code in <your username>.Exer2.Task3(Code)
3. Compile and run it
4. It should output 'Hello World!'

Note: the record format for the compiler output needs be U.

Server Operating Systems 2011 | Stefan Richter | 11/05/2011



Task 3b: Solution

8

- JCL:


```
//COMPPL1 JOB STEFAN,MSGCLASS=X,REGION=0M
//STEP1 EXEC IBMZCB
//PLI.SYSIN DD DSN=IBMUSER.SOS2011.CODE(PL1),DISP=SHR
//BIND.SYSLMOD DD DSN=IBMUSER.SOS2011.LOAD(PL1),DISP=SHR
//*
```
- PL1:


```
HELLO: PROCEDURE OPTIONS (MAIN);
        PUT LIST ('Hello, world!');
      END HELLO;
```

Server Operating Systems 2011 | Stefan Richter | 11/05/2011