JCL and Programming On the MVS Turnkey System

This assumes you've already set up, run, connected to, and logged in to an MVS Turnkey system. If not, you can find instructions here.

About

A job to be run consists of two parts:

- 1. JCL to tell the mainframe how to run the program, and
- 2. The actual program, written in a language with a supporting compiler on the mainframe.

```
// JCL comes first, and is prefixed by two slashes
The program source follows.
```

The JCL message class must be set to 'H', or you won't be able to see the output from your jobs.

The 'H' indicates to the system that the output should be 'Held', making it available for viewing in the OUTLIST utility, in Data Set Utilities.

COBOL

COBOL first appeared in 1959. The latest stable release was in 2014. It's meant to be "English-like" in syntax.

COBOL is still widely deployed. For example, as of 2017, about 95 percent of ATM swipes use COBOL code, and it powers 80 percent of in-person transactions.

Create and Submit the Job

Your starting point should be the main screen:

Terminal CUU0CO System TK4- TSO User HERCO1		Date 03.12.21 Time 00:58:19
0ption ===> []		
The TK4- Versio	MVS 3.8j Tur(n)key System n 1.00 Update 08 MVS PUT 8505	1.20
	TSO Applications	
1 RFE 2 RPF 3 IM 4 QUEUE 5 HELP 6 UTILS 7 TERMTEST	"SPF like" productivity tool "SPF like" productivity tool IMON/370 system monitor spool browser general TSO help information on utilities and commands a verify 3270 terminal capabilities	vailable
	Enter X to Terminate	
PF3=Terminate		





Enter '3' to access utility functions:

2025/06/17	07:01	3/16	JC	CL and Programming On	the MVS Turnkey System
COMMA	ND ===> 3		REVIEW FRONT END		
1 2	BROWSE EDIT	- VIEW OR BROU - UPDATE OR CI	ASE DATA SET CONTENTS REATE DATA SET CONTENTS	USERID SYSTEM S TERMINAL NETWORK	- HERC01 - TK4- - CUU0C0 -
3	UTILITIES	- PERFORM UTI	LITY FUNCTIONS	RELEASE	- 46.6 - FRT 337
6	COMMAND	- ISSUE TSO O	R CLIST COMMAND	DATE	- 2021-12-03
Х	EXIT	- TERMINATE R	E	TTHE	00-30

Enter '4' to access the Data Set list:

сомма	NN ===> 41	DATA SET UTILITIES
e on in in		
1	LIBRARY	- PDS COMPRESS AND MEMBER MANAGEMENT
2	DATASET	- CREATE, DELETE, RENAME, CATALOG OR UNCATALOG DATA SET
3	MOVE/COPY	- MOVE OR COPY PDS MEMBERS OR DATA SET CONTENTS
4	DSLIST	- PROCESS DATA SETS FROM A CATALOG OR VTOC LIST
5	SPFSTATS	- ADMINISTER STATISTICS OF LIBRARY MEMBERS
8	OUTLIST	- DISPLAY, DELETE OR PRINT HELD JOB OUTPUT

Enter 'SYS2.JCLLIB' to filter the Data Set list:

Last update:	ich programming mus turnkov system https://kbase.dovtoprd.com/doku.php?id=ich programming mus turnkov system
2025/06/08 07:15	Jci_programming_mvs_cumkey_system https://kbase.uevtoprd.com/dokd.piphid=Jci_programming_mvs_cumkey_system

Command ===>	·	RFE DSLIST		
blank - ALLOC -	- display data set - allocate a new da	list ata set		
Data se	et name prefix ==>	SYS2.JCLLIB		
Volume	serial number ==>			
Data se	t selection codes			
A D L U	- Allocate like - Delete - Listcat - Uncatalog	B - Browse E - Edit R - Rename Y - View	C - Catalog I - Info S - Short inf Z - Compress	0

Tab to the detail line for SYS2.JCLLIB, then enter 'e' in the S column, for Edit:



The Data Set list will display:

SYS2.JCLLIB on MVSRES Row 1 of 115						- Row 1 of 115		
Command ===>							Sc	:roll ===> <mark>CS</mark>
NAME	TTR	VV.MM	CREATED	CHAI	NGED	INIT	SIZE	MOD ID T
. \$\$\$INDEX	002E01	01.02	14-11-12	16-09-17	14:55:58	135	138	Ø JUERGEN I
. \$HISTORY	000103							
. ADDALIAS	000105							
ADDUSER	000B0D	80.02	74-06-28	74-06-28	13:25:00	79	17	0 HERC01 I
ADDUSERP	000B11	80.02	74-06-28	02-07-14	20:20:00	17	17	0 HERC01 I
. ALGSAMP1	001303	02.01	14-12-18	14-12-18	12:00:00	84	84	0 LEVEL I
ALGSAMP2	002005	02.01	14-12-18	14-12-18	12:00:00	57	57	O LEVEL I
. ALGSAMP3	002003	02.01	14-12-18	14-12-18	12:00:00	100	100	O LEVEL I
ALGSAMP4	001401	02.01	14-12-18	14-12-18	12:00:00	896	896	0 LEVEL I
. ALLALIAS	000D0B							
. AMASPZAP	000107							
. AMDPRDMP	000109							
. BAT#EDIT	000201							
BSPHRCMD	000203	01.06	13-10-02	13-10-06	11:36:03	8	26	0 HERC01
BSPOSCMD	000205							
. BSPVTMWT	000A0D	80.00	73-12-23	73-12-23	14:06:00	4	4	0 HERC02
. BYPASSNQ	000207							
. CHGPWD	000B0F	80.02	74-06-28	74-06-28	14:18:00	17	23	0 HERC01
. CLIPDASD	000209							
. COMPPROC	000301							
. COMPRESS	000303							
. CONFIGSE	000A09	80.01	73-06-16	73-06-16	12:48:00	29	14	0 HERC01
CODVAA4	AAADA4	00 00	74 00 44	74 AC 4E	44.04.00	04	04	

If you press [F8] (*page down*) a few times, you'll see several Data Sets with names that begin with 'TEST'. These are test programs for various languages:

THPEMHP	000H05								
TESTALG	001301								
TESTCOB	000E03								
TESTFORT	000E05								
TESTGCC	00110B	01.00	13-12-22	13-12-22	20:30:00	37	37	0	JUERGEN
TESTJCC	001801	01.00	14-11-12	14-11-12	17:45:00	37	37	0	TK4-
TESTPL1	000E07								
TESTRPG	000E09								
TESTSIMU	001201	01.00	14-01-05	14-01-05	06:00:00	151	151	0	JUERGEN
TESTSORT	000F01								
TESTWATF	001703	01.00	14-09-30	14-09-30	22:00:00	19	19	0	JUERGENI
теоратец	000000								

We'll be using TESTCOB as a template for our COBOL job. We don't want to use it directly, creating a copy instead. The first thing to do is to create a new, empty Data Set, with the name NEWCOB:

Last update: 2025/06/08 07:15 jcl_programming_mvs_turnkey_system https://kbase.devtoprd.com/doku.php?id=jcl_programming_mvs_turnkey_system

SYS2.3CLLID on WYSRES								
Lommand ===>	S NEWUL		ODEATED	CUA		TNTT	30	$\frac{1}{100} = \frac{1}{10} \frac{1}{10}$
	_		UREHTED		NGED	TNTI	SIZE	MOD TD
. PTPCH001	000B03	80.02	74-06-14	74-06-15	14:21:00	19	19	0 HERC01
. PTPCH002	000B05	80.01	74-06-15	74-06-15	23:40:00	19	19	0 HERC01
. PUNPDSXM	000701							
. PWDPRINT	000009	80.03	02-07-22	02-07-22	11:02:00	19	24	0 HERC01
. RD#PDSXM	000703							
. READOMAT	000901							
. RECV370P	000801	01.07	13-10-01	13-10-06	12:16:23	53	69	0 HERC01
. RECV370S	000803							
. RENMEMBR	000805							
. REVLMOD	000A0F	80.01	73-12-23	73-12-23	14:08:00	4	4	0 HERC02
. SAVEOLD	000A01							
. SHUTDOWN	001109	01.00	13-07-15	13-07-15	22:07:00	13	13	0 SYSOPER
CTMUDDTM	001002	01 00	14-01-01	14-01-01	10-20-00	65	65	

The new, empty Data Set opens in REVEDIT.

Next, we indicate that we want to populate it with a copy of the contents of TESTCOB:

REVEDIT SYS2.JCLLID(NEWCOD) - 1.00 COMMAND ===> COPY TESTCOB		COLUMNS 00001 00072 SCROLL ===> <u>CS</u>
	* TUP UF DHIH	************

The editor will display the copied text:

```
REVEDIT 33 LINE(S) COPIED
                                               COLUMNS 00001 00072
COMMAND ===>
                                                   SCROLL ===>
  000001 //TESTCOB JOB
                 (SETUP),
000002 //
                 TEST COBOL ,
000003 //
                 CLASS=A,
000004 //
                 MSGCLASS=A.
                 MSGLEVEL=(1,1)
000005 //
000007 //*
000008 //* NAME: SYS2.JCLLIB(TESTCOB)
000009 //*
000010 //* DESC: TEST COBOL INSTALLATION
000011 //*
000013 //HELOWRLD EXEC COBUCLG
000014 //COB.SYSIN DD *
000015
       001
           IDENTIFICATION DIVISION.
000016
       002
           PROGRAM-ID. 'HELLO'.
           ENVIRONMENT DIVISION.
000017
       003
000018
       004
          CONFIGURATION SECTION.
000019
       005
           SOURCE-COMPUTER.
                         IBM-360.
000020
       006
           OBJECT-COMPUTER.
                         IBM-360.
       0065 SPECIAL-NAMES.
000021
       0066
              CONSOLE IS CNSL.
000022
000023
       007
           DATA DIVISION.
000024
       008
           WORKING-STORAGE SECTION.
000025
       009
              HELLO-CONST PIC X(12) VALUE 'HELLO, WORLD'.
           77
000026
       075
           PROCEDURE DIVISION.
           000-DISPLAY.
       090
000027
000028
       100
              DISPLAY HELLO-CONST UPON CNSL.
000029
              STOP RUN.
       110
000030 //LKED.SYSLIB DD DSNAME=SYS1.COBLIB,DISP=SHR
000031 //
                 DD DSNAME=SYS1.LINKLIB,DISP=SHR
000032 //GO.SYSPRINT DD SYSOUT=A
000033 //
```

Make a few edits to the copied text. First, in line 0001, change TESTCOB to NEWCOB:

REVEDIT 33 LINE(S) C	OPIED			COLUMNS 00001 00072
COMMAND ===>				SCROLL ===> <mark>CS</mark>
****** <mark>****7</mark> 4P****AIIT	OSAVE*********	TOP OF	DATA	************
000001 //NEWCOB JOB	(SETUP),			
000002 //	'TEST COBOL',			
000003 //	CLASS=A,			
000004 //	MSGCLASS=A,			
000005 77	MSGLEVEL - (1 1)			

In line 0002, update the description:



Finally, in line 0004, change the MSGCLASS to 'H':

REVEDIT 33 LINE(S) COPIED COMMAND ===>	COLUMNS 00001 00072 SCROLL ===> <mark>CS</mark>
***** ****ZAP****AUTOSAVE********** TOP OF	DATA ***********************************
000001 //NEWCOB JOB (SETUP),	
000002 // 「NEW COBOLT,	
000003 // <u>CLASS-A,</u>	
000004 // MSGCLASS=H,	
000005 // MSULEYEL-(1,1)	
000006 //*******************************	*****************************
000007 //#	

(This will ensure that the output from the job is retained and viewable after we run it)

Save your changes:

DEVENTT 33 LINE(S) COPIED	COLUMNS 00001 00072
COMMAND ===> SAVE	SCROLL ===> CS

000001 //NEWCOB JOB (SETUP),	
000002 // INEW COBOL1,	
000003 // CLASS=A,	
000004 // MSGCLASS=H,	
000005 // MSGLEVEL=(1,1)	
000006 //*******************************	*******
000007 //*	
000008 //* NAME: SYS2.JCLLIB(TESTCOB)	
000009 //*	
000010 //* DESC: TEST COBOL INSTALLATION	
000011 //*	
000012 //***********************************	******

Submit the job:



You'll see a confirmation message, indicating that the job has been submitted:

JOB	NEWCOB(JOB00006)	SUBMITTED

Check the Results

If you aren't already on the main screen, press [F3] until it's displayed:

Terminal CUU0C0 System TK4- TSO User HERC01	Date 03.12.2 Time 00:58:2	21 19
Uption>		
The TK4- Versic	MVS 3.8j Tur(n)key System on 1.00 Update 08 MVS PUT 8505	
1 RFE 2 RPF 3 IM 4 QUEUE 5 HELP 6 UTILS 7 TERMTEST	"SPF like" productivity tool "SPF like" productivity tool IMON/370 system monitor spool browser general TSO help information on utilities and commands available verify 3270 terminal capabilities	
	Enter A to Terminate	
PF3=Terminate		

Enter '1' to access the RFE tool:

Terminal CU System TK TSO User HE	UOCO 4- RCO1		Date Time	03.12.21 00:58:19
Option ===>	1 🛛			
TK4-	The MVS 3.8j Tur(n)key Version 1.00 Update 08	System - MVS PUT 8505	ան	
	TSO Applications	6 		
1 RFE 2 RPF 3 IM 4 QUEU 5 HELP 6 UTIL 7 TERM	"SPF like" product "SPF like" product IMON/370 system mo spool browser general TSO help S information on uti TEST verify 3270 termin	civity tool civity tool pnitor lities and commands nal capabilities	available	
	Enter X to Termina	ate		
PF3=Termina	te			

Enter '3' to access utility functions:

COMMA	ND ===> 3	REVIEW FRONT END		
1	BROWSE	- VIEW OR BROWSE DATA SET CONTENTS	USERID	- HERC01
2	EDIT	- UPDATE OR CREATE DATA SET CONTENTS	TERMINAL	- CUU0C0
3	UTILITIES	- PERFORM UTILITY FUNCTIONS	NETWURK RELEASE DAY	- - 46.6 - FRT 337
6	COMMAND	- ISSUE TSO OR CLIST COMMAND	DATE	- 2021-12-03
Х	EXIT	- TERMINATE RFE	TIME	- 00:58

Enter '8' to access held job output:

2025/06/17	07:01	11/16	JCL and Programming On the MVS Turnkey System
COMMA	ND ===> 8		DATA SET UTILITIES
1	LIBRARY	- PDS COMPRE	SS AND MEMBER MANAGEMENT
2	DATASET	- CREATE, DE	LETE, RENAME, CATALOG OR UNCATALOG DATA SET
3	MOVE/COPY	- MOVE OR CO	PY PDS MEMBERS OR DATA SET CONTENTS
4	DSLIST	- PROCESS DA	TA SETS FROM A CATALOG OR VTOC LIST
5	SPFSTATS	- ADMINISTER	STATISTICS OF LIBRARY MEMBERS
8	OUTLIST	- DISPLAY, D	ELETE OR PRINT HELD JOB OUTPUT

Enter 'ST *', indicating that you want to display all held jobs:

DEUQUE		· · · · · · · · · · · · · · · · · · ·	INF 1 NF 1
		L	
COMMAND ===> ST *		SCROLI	_ ===> <mark>CS</mark>
C O JODNAME JODTDENT QUEUE	EXEC STATUS	STEPNAME PROCSTEP	CPU-TTMF
			4 4 4
HERCOI ISUVVVV6 XEQ @	184-	ISULUGUN	1.10

You'll see 'NEWCOB', the job you recently submitted, at the end of the list:

REVOUT *				LINE	1 OF 17
COMMAND ===>				SCROLL	===> <mark>CS</mark>
S Q JOBNAME	JOBIDENT QUEUE	EXEC STATUS	STEPNAME	PROCSTEP	CPU-TIME
SYSLOG	STC00088 XEQ \$	TK4-			0.99
SPPILOT	STC00089 XEQ \$	ТК4-	BSPPILOT	C3P0	0.08
Í Í INIT	STC00090 XEQ \$	TK4-	INIT	IEFPROC	0.00
Í Í INIT	STC00091 XEQ \$	TK4-	INIT	IEFPROC	0.00
Í Í INIT	STC00092 XEQ \$	TK4-	INIT	IEFPROC	0.00
' INIT	STC00093 XEQ \$	TK4-	INIT	IEFPROC	0.00
Í Í INIT	STC00094 XEQ \$	TK4-	INIT	IEFPROC	0.00
Í Í INIT	STC00095 XEQ \$	TK4-	INIT	IEFPROC	0.01
1 1 NET	STC00098 XEQ \$	TK4-	NET	IEFPROC	0.32
f f TP	STC00099 XEQ \$	TK4-	TP	TCAM	0.69
1 1 MF1	STC00100 XEQ \$	TK4-	MF1	IEFPROC	0.04
f f TS0	STC00101 XEQ \$	TK4-	TS0	STEP1	0.01
<pre>f f SNASOL</pre>	STC00102 XEQ \$	TK4-	SNASOL	SOLICIT	0.59
f f JRP	STC00103 XEQ \$	TK4-	JRP	JRP	0.11
1 1 HERC01	TSU00006 XEQ @	TK4-	TSOLOG <u>ON</u>		1.11
* * NEWJCC	JOB00003 PRTPU				
1 NEWCOB	JOB00006 PRTPU				

Enter 'S' in the S column for the NEWCOB job:

REVOUT *				LIN	E 1 OF 17
			OTEDNANE	DDOODTED	
S Q JUBNAME	JUBIDENI QUEUE	EXEC STATUS	STEPNAME	PRUCSTEP	CPU-IIME
´´ SYSLOG	STC00088 XEQ \$	TK4-			1.01
* * BSPPILOT	STC00089 XEQ \$	TK4-	BSPPILOT	C3P0	0.08
Í Í INIT	STC00090 XEQ \$	TK4-	INIT	IEFPROC	0.00
Í Í INIT	STC00091 XEQ \$	TK4-	INIT	IEFPROC	0.00
Í Í INIT	STC00092 XEQ \$	TK4-	INIT	IEFPROC	0.00
Í Í INIT	STC00093 XEQ \$	TK4-	INIT	IEFPROC	0.00
1 1 INIT	STC00094 XEQ \$	TK4-	INIT	IEFPROC	0.00
1 1 INIT	STC00095 XEQ \$	TK4-	INIT	IEFPROC	0.01
1 1 NET	STC00098 XEQ \$	TK4-	NET	IEFPROC	0.32
TP TP	STC00099 XEQ \$	TK4-	ТР	TCAM	0.69
1 1 MF1	STC00100 XEQ \$	TK4-	MF1	IEFPROC	0.04
1 TSO	STC00101 XEQ \$	TK4-	TS0	STEP1	0.01
SNASOL	STC00102 XEQ \$	TK4-	SNASOL	SOLICIT	0.62
1 JRP	STC00103 XEQ \$	ТК4-	JRP	JRP	0.12
1 HERC01	TSU00006 XEQ @	TK4-	TSOLOGON		1.13
A NEW JOC	JOB00003 PRTPU	4			
S 🛛 NEWCOB	JOB00006 PRTPU	1			

Job output is displayed:

SYS21337.T010558.RA000.HERC01.J0B00006					Line 1 Col 2 8	
Lommand =	-==>2(<u> </u>) 4(50	60	$\frac{5 \text{ croll}}{70} == 2 \frac{13}{80}$
-+++-	+	++	/++	·++	· · · · · · · · · · · · · · · · · · ·	+++++
				J	IFS2 J	0 8 1 0 6
01.03.49	JOB 6	TEE677T We	ARNING MESS	AGE(S) FOR	JOB NEWCO	B TSSUED
01.03.49	JOB 6	\$HASP373 N	NEWCOB ST	ARTED - IN	IT 1 - CL	ASS A - SYS TK4-
01.03.49 0	JOB 6	IEF403I NE	EWCOB - STA	ARTED - TIM	E=01.03.49	
01.03.49	JOB 6	IEC130I SY	SPUNCH DD	STATEMENT	MISSING	
01.03.49	JOB 6	IEC130I SY	/SLIB DD	STATEMENT	MISSING	
01.03.49	JOB 6	IEC130I SY	SPUNCH DD	STATEMENT	MISSING	
01.03.49	JOB 6	IEFACTRT -	- Stepname	Procstep	Program	Retcode
01.03.49 0	JOB 6	NEWCOB	HELOWRLD	COB	IKFCBL00	RC= 0000
01.03.49	JOB 6	NEWCOB	HELOWRLD	LKED	IEWL	RC= 0000
01.03.49	JOB 6	+HELLO, WO	ORLD			
01.03.49	JOB 6	NEWCOB	HELOWRLD	GO	PGM=*.DD	RC= 0000
01.03.49	JOB 6	IEF4041 NE	WCOB - ENL	JED - IIME=	01.03.49	
01.03.49	JUB 6	\$HASP395 N	NEWCOB EN	IDED		
1	77NEWCUB	JUB (SEI				
	11		I CUBUL ,			
			5778, 21000-11			
		MCCL	-LH35-Π, Ενεί-(1 1)			
			-UEDCA1 DAG	schodd-	CE.	
	//	UJER-	-NEKUVI,PH:) 3 M 0 K D -	UL	NEKHIED DI UDL ******

	*** NAME	: SYS2101.1	TRATESTOOP	0		
	***	- 010210021		, , , , , , , , , , , , , , , , , , ,		
	*** DESC	: TEST COBO	DE TNSTALLE	TTON		

	******	*********	*********	*******	*******	*****
2	//HELOWRI	D EXEC COE	BUCLG			
3	XXCOBUCLO	G PROC SOUT	[= **			
4	XXCOB EX	KEC PGM=IH	(FCBL00,			
	XX	PARM='	LOAD, SUPMA	P,SIZE=204	18K, BUF=102	4K ⁻
5	XXSYSPRI	NT DD SYSC	DUT=&SOUT			
6	XXSYSUT1	DD UNIT=SY	(SDA, SPACE=	(460,(700,	100))	
7	XXSYSUT2	DD UNIT=SY	(SDA, SPACE=	(460,(700,	100))	
8	XXSYSUT3	DD UNIT=SY	(SDA, SPACE=	(460,(700,	100))	
9	XXSYSUT4	DD UNIT=SY	(SDA, SPACE=	(460,(700,	100))	
10	XXSYSLIN	DD DSNAME=	&LOADSET,E	DISP=(MOD,P	ASS),UNIT=	SYSDA,
	XX	SPAC	E=(80,(500),100))		7828K FRE

Press [F8] to page down, and you'll see the 'Hello World' output:

SYS21337. Comm <u>and</u> =	T010558.RA000	.HERC01.JOB00	0006		Li	ne 118 Co Scro <u>ll =</u> =	ol 2 81 ≔> <mark>CS</mark>
10	20	30	40	50	60	70	80
++-		**********	++ {*****	******	*****	*******	******
* 2.J	lobstep_of_iob	: NEWCOB	Stepname:	LKED	Progra	m name:]	EWL
ĸ	elapsed time	00:00:00,04			CPU-Iden	tifier:	TK4-
÷	CPU time	00:00:00,02		Virtu	al Storage	used:	264K
ĸ	corr. CPU:	00:00:00,02	CPU time	has been	corrected	by 1 /	1,0 m
ж 	0						
* 170 * Norsh	uperation	road uta DD		та•	0		
• NUMD ⊮ 140	22 DMV		10 148	17.1	48 0	170	0 DM
* 177.		10010		·····	10V	1/ 11/ 11/1	
ĸ			Cha	rge for s	tep (w∕o S	YSOUT):	
************			************	*******	*******	*******	******
IEF2301 HL IFF237T 19	LUC. FUR NEWL	TO DOM TELOWRI					
		TO SYSPRINT					
HELLO, WOR							
IEF142I NE	HEEL GO HELOK	IRLD - STEP WA	AS EXECUTED	- COND C	0DE 0000		
IEF285I	SYS21337.T010	349.RA000.NE	ICOB.GODATA		KEPT	*	0
IEF285I	VOL SER NOS=	WORK02.					
IEF285I	JES2.J0B00006	.\$00104			SYSOUT		
IEF373I ST	EP /G0 /	START 21337.	.0103			ANTH	
IEF3741 ST		STUP 21337.	.0103 CPU	OMIN 00	.00SEC SRB	OMIN	00.005
IEF2371 18 IEF285T	SYS21227 TO10	10 31300001 1349 BAAAA NEL		01	KEDT	¥	0
IFF285T	VOL SER NOS-	WORK02		V1			v
IEF285I	SYS21337.T010	349.RA000.NE	COB.GODATA		DELETED		
IEF2851	VOL SER NOS=	WORK02.					
IEF375I J	IOB /NEWCOB /	START 21337.	.0103				
IEF376I J	IOB /NEWCOB /	STOP 21337	.0103 CPU	OMIN 00	.07SEC SRB	OMIN	00.025
CB545 V2	LVL78 01MAY7	2	IBM O	S AMERICA	N NATIONAL	STANDARE) COBOL
1							
00001	001 TDENTIES	CATTON DTVTS	ION .				
00002	002 PROGRAM-	ID. THELLOT					
00003	003 ENVIRONM	ENT DIVISION.					
00004	004 CONFIGUE	ATION SECTION	۹.				
00005	005 SOURCE-C	OMPUTER. IBM	1-360.				
00006	006 OBJECT-C	OMPUTER. IBM	1-360.				
00007	0065 SPECIAL-	NAMES.				7828	3K FREE

Press [F3] several times to return to the main screen.

FORTRAN

FORTRAN first appeared in 1957. The latest stable release was in 2018. It's widely used in scientific and engineering applications.

Follow the COBOL instructions, with the following differences:

- 1. Copy 'TESTFORT' instead of 'TESTCOB', and name it 'NEWFORT' instead of 'NEWCOB'.
- 2. When you edit NEWFORT, change the job name and description to indicate NEWFORT instead of

NEWCOB.

PL/1

You may also see the name written as 'PL/I'. It first appeared in 1964, and the latest stable release was in 2019.

Follow the COBOL instructions, with the following differences:

- 1. Copy 'TESTPL1' instead of 'TESTCOB', and name it 'NEWPL1' instead of 'NEWCOB'.
- 2. When you edit NEWPL1, change the job name and description to indicate NEWPL1 instead of NEWCOB.

There's an additional change, and it's important:



location.

С

C first appeared in 1972, and the latest stable release was in 2018. It's the most actively used "old language" by far, heavily used in operating system and kernel development, device drivers, and embedded development.

It's a dangerous language: Memory management is tricky. But, it's also extremely powerful, as it's well suited for getting close to the hardware.

Follow the COBOL instructions, with the following differences:

- Copy 'TESTJCC' instead of 'TESTCOB', and name it 'NEWJCC' instead of 'NEWCOB'. Use TESTJCC as your copy source, not TESTGCC. The GCC compiler ABENDs (throws an error) in the MVS Turnkey system.
- 2. When you edit NEWJCC, change the job name and description to indicate NEWJCC instead of NEWCOB.

mainframe, retro

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