COBOL–81
RSTS/E
Installation Guide/Release Notes

Order No. AA-L028E-TC

digital software

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RSTS/E
Installation Guide/Release Notes

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Operating System and Version:	RSTS/E	V8.0
Software Version:	RSTS/E COBOL-81	V2.3

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PREFACE

MANUAL OBJECTIVES

This manual describes the procedures for installing and verifying COBOL-81 Version 2.3 on RSTS/E Version 8.0, discusses functional differences between COBOL-81 versions, and lists COBOL-81 Version 2.3 features.

INTENDED AUDIENCE

The first two chapters of this manual are intended for the system manager or privileged user responsible for installing the COBOL-81 Version 2.3 compiler. You should read these chapters before you begin the installation.

Chapter 3 is intended for all COBOL-81 users.

STRUCTURE OF THIS DOCUMENT

- Chapter 1 describes the installation and verification procedure.
- Chapter 2 lists all files in the COBOL-81 release package.
- Chapter 3 contains the Release Notes for COBOL-81.

CONVENTIONS USED IN THIS MANUAL

The following conventions are observed in this manual.

CONVENTION	MEANING
CTRL/x	A symbol that indicates the CTRL key; it must be held down while another key is pressed. For example, CTRL/C means hold down CTRL while pressing C.
...	Horizontal ellipsis; indicates that you can enter additional parameters, values, or other information.

CONVENTION	MEANING
[ ]	Square brackets; usually indicate optional syntax. Brackets that are part of directory names, however, do not indicate optional syntax. In addition, certain MCR directives use brackets as part of their required syntax.
(RET)	A one-to-three character abbreviation, which indicates that you press a key on the terminal. (RET) indicates the RETURN key.
red ink	Color of ink used to show all user-entered commands in examples.
UPPERCASE WORDS	Uppercase words and letters used in examples indicate that you should type the word or letter exactly as shown.
lowercase words	Lowercase words or letters in examples indicate that you are to substitute a word or value of your choice.

CHAPTER 1

INSTALLATION PROCEDURE

This section tells how to install the COBOL-81 Version 2.3 compiler on RSTS/E Version 8.0. The installation requires that you perform the following tasks:

1. Mount the distribution volume
2. Answer the system prompts

After you answer all of the prompts, the installation procedure continues without operator intervention and displays the operations it performs. These operations proceed in the following order:

1. Task-building the COBOL-81 compiler
2. Task-building COBOL-81 resident libraries (if you requested this)
3. Installing COBOL-81 task files
4. Certifying the success of the installation

The compiler can be installed by any system user who has a privileged account or who has access to one. Compiler installation, however, is usually performed by the system manager.

You should read this entire manual before beginning the installation.

1.1 SYSTEM REQUIREMENTS

Before installation can begin, the system on which you run the installation must have a SWAP MAX minimum of 24K words. This system must also have had RMS-11 previously installed. It must have had the RSX-11 Emulator previously installed, and it must have the following utilities in the system library:

- Peripheral Interchange Program utility (PIP.SAV)
- Task Builder (TKB.TSK)
- Slow Task Builder (STK.TSK)--if building a compiler under 30K words
- Save Image Library utility (MAKSIL.BAC or MAKSIL.TSK)

If you plan to run the compiler on a system other than the one on which you build it, make sure that the target system meets the following requirements:

- RMS-11 is installed.
- The RSX-11 Emulator is installed.
- The SWAP MAX is a minimum of 24K words if using an RMS-11 resident library; otherwise, it is a minimum of 26K words.

The installation also requires that the system public disk structure have at least 5000 free blocks.

If your system meets the above requirements, you can install the COBOL-81 Version 2.3 compiler.

1.2 COMPILER INSTALLATION AND VERIFICATION

It takes between 20 and 45 minutes (depending on your CPU type, choice of Task Builder, and disks) to install the COBOL-81 compiler on RSTS/E Version 8.0.

Use a hard-copy terminal, if available, since you may need to examine a listing for errors.

To start the installation, follow these steps:

1. Log in on a privileged account. If DCL is currently your job default keyboard monitor, you must switch to another run-time system, such as BASIC, BASIC-PLUS-2, or RSX-11. The terminal display samples used in this manual were taken from an installation using the BASIC run-time system. If you use the BASIC-PLUS-2 or RSX-11 run-time system for your installation, your system prompts will differ from those in the terminal display samples.

2. Mount the tape or disk from your kit. If the kit is on disk, you may want to depress the write protect switch on the disk drive. This provides maximum write protection to your kit contents during the installation procedure.

   If the kit is on disk, logically mount the disk. Use the following command to ensure read-only access (replace dev: with the logical name for the disk drive on which you mounted the compiler kit):

   ```
   >MOUNT dev:C81KIT/RONLY
   ```

   If the kit is on tape, do not assign the tape.

3. To execute the command file C81BLD from the RSTS/E system program BUILD, type the following:

   ```
   >RUN $BUILD (RET)
   ```

   NOTE

   If you choose to respond to the BUILD prompts other than with the default response (carriage return), refer to the RSTS/E System Generation Manual for information on how to make your responses.

After you type RUN $BUILD and press the RETURN key, BUILD prompts you with the following questions (replace MM1: with the logical name for the device on which you mounted the compiler kit):

```
BUILD   V8.n-nn          RSTS V8.n-nn User's Installation Name

System Build <No> ? RET

Source Input Device <SY:> ? MM1: RET

Library Output Device <SY:> ? RET

Target System Device <SY0:> ? RET

Library Account <[1,2]> ? RET

Control File is ? C81BLD RET
```

After you enter the name of the control file, the BUILD program displays the following message and then continues with another series of questions:

```
*** Copying file MM1:[1,2]C81BLD.CTL to BLDnn.TMP ***

Function (Build/Patch, Patch, Build) <Build/Patch> ? RET

Patch file input location <SY:[200,200]> ? RET
```

If the patch files are in a different location, specify the device and account [P,PN].

```
Save patched sources <No> ? RET

Additional Control File is <None> ? RET
```

After you press the RETURN key, the BUILD program executes the C81BLD.CTL file and displays (without operator intervention) the operations it performs, as follows:

```
Ready

ASSIGN MM1:/MO:1

Ready

ASSIGN SY0:SYSDSK

Ready

ASSIGN SY:SYSTEM

Ready

ASSIGN [1,2]

Ready
```

```
ASSIGN MM1:INPUT

Ready

!       C81BLD.CTL - COBOL-81 V2.3
!
!       Copyright (C) 1984
!       By Digital Equipment Corporation, Maynard, Mass.
!
!       Build control file to install COBOL-81 V2.3 on a
!       RSTS/E V8.0 system.
!                               .
!                               .
!                               .
!
!
RUN SY:[1,2]UTILTY
UTILTY  V8.n-nn          RSTS V8.n-nn User's Installation Name
#ADD RSX
?Name or account now exists - in ADD
#ADD RT11
?Name or account now exists - in ADD
#^Z

Ready


!
!
!       Copy required COBOL-81 components onto the system.
!
RUN SY:[1,2]PIP.SAV
*SY:=MM1:[1,2]C81TMP.ODL/NOREW
*SY:=MM1:[1,2]C81TMP.CMD/NOREW
*SY:=MM1:[1,2]C81INS.TSK/NOREW/RTS:RSX
*LB:<40>=MM1:[1,2]C81BLD.OLB/NOREW
*LB:<40>=MM1:[1,2]RMSC81.ODL/NOREW
*^Z

Ready


!
!       Run C81INS.TSK to set the compiler parameters
!       and to create C81BLD.CMD and C81BLD.ODL with
!       appropriate commands
!
RUN C81INS.TSK
```

At the end of this display, the following comments introduce the dialog that allows you to define attributes for your compiler. The example default attributes are in quotation marks. The attributes you choose depend on your system requirements. The default attributes in your display are the optimum compiler attributes for your system.

```
*****************************************************
**     This is the beginning of the dialog to      **
** define the attributes of your COBOL-81 compiler. **
*****************************************************
```

```
By examining the system on which you are running,
the installation procedure has determined that
the default compiler for your system has the
following attributes:

        generates "CIS" code
        uses "nonresident" RMS
        has a task size of "32K" words
```

The following information will help you determine if any of the default attributes should be changed for your system:

- You can use CIS only if your PDP-11 processor has the Commercial Instruction Set (CIS).
- If you select the RMS-11 resident library rather than the nonresident RMS-11 library, first see the RMS-11 User's Guide for information on the advantages and disadvantages of using the RMS-11 resident library.
- The task size cannot exceed the SWAP MAX value of your RSTS/E system. If you must request a smaller task size because of physical memory limitations, note that the compilation speed will be slower.

The computer dialog continues as follows:

```
If you want the installation to proceed using
these defaults, answer YES.  If you want to
change these defaults or the default for any of
the compile-time switches, answer NO.
```

If you answer YES to the prompt below or if you only press the RETURN key, the installation procedure skips the compiler attribute prompts and resumes with a question about building COBOL-81 Object Time System resident libraries. If you answer NO, the dialog first asks you about compiler attributes (default attributes are displayed within angle brackets).

```
Do you want to build the default compiler   <YES>?
```

If you answer NO, the dialog continues as follows:

```
Should the compiler generate CIS or NONCIS
code by default                          <"CIS"   >?
```

If you answer YES in response to the last question, your compiler task size will be 24K words. The installation dialog then prompts you with a question about the compiler switches. If you answer NO in response to the last question, the installation dialog then asks you to specify compiler task size before continuing with the question about compiler switches.

```
Do you want the compiler built using the
RMS resident library                    < NO     > ?

What should be the compiler task size in K
words (legal range is from "26" to "32")    <"32">?
```

If you answer NO to this last prompt or if you only press the RETURN key, the BUILD program now asks you about building COBOL-81 OTS resident libraries. If you answer YES, the program first asks you about the default setting for each switch as follows (the normal default setting for each switch is displayed within angle brackets):

```
Do you want to change the default of any of the
compiler switches                              <NO >?
```

NOTE

COBOL-81 defines a default value for all of its compile-time switches. At this point in the installation, you can change the default for any or all of the switches. Whether you override the defaults during the installation or not, you can change the defaults at each compilation. For more information on compiler switches, see Chapter 2 of the COBOL-81 User's Guide.

```
Do you want the compiler to produce cross-
reference listings by default  (/CRF)  <NO >?

Do you want the default source program format
to be ANSI format              (/CVF)  <NO >?

Do you want the compiler to produce by
default the data needed to use the Symbolic
Debugger                       (/DEB)  <NO >?

Do you want the compiler to produce Procedure
and Data Division maps by default
                               (/MAP)  <NO >?

Do you want the compiler to list informa-
tional diagnostics by default  (/INF)  <YES>?

Do you want the compiler to generate by
default the code needed for checking nested
PERFORMS                       (/PER)  <YES>?

Do you want the compiler to generate by
default the code needed for checking index
and subscript values           (/BOU)  <YES>?

Do you want the compiler to produce a
skeleton ODL file by default   (/SKL)  <YES>?

Do you want the compiler to produce Task
Builder ODL and CMD files by default
                               (/BLD)  <NO >?

Do you want the compiler to generate by
default the code needed for doing decimal
truncation of COMPUTATIONAL fields
                               (/TRU)  <NO >?
```

The following question is about building COBOL-81 OTS resident libraries. Answer it according to whether you want the installation procedure to build one, both, or neither of the COBOL-81 resident libraries. Note that, in order to use resident libraries, you must

include support for them during the generation of your RSTS/E system. Refer to the RSTS/E System Generation Manual for more information on including resident library support.

```
 Which, if either, of the COBOL-81 OTS resident
 libraries do you want to be built
 (NONE, CIS, NONCIS, BOTH)                    <NONE>?


  ************************************************
  **  This is the end of the installation dialog.    **
  **    The installation will now proceed without    **
  **         further operator intervention.          **
  ************************************************
```

The BUILD program then displays the following without operator intervention:

```
 Ready

 RUN SY:[1,3]PIP.SAV
*TKBC81.CMD=TKBC81.CMD/RMS:FA
*^Z

 Ready


 !
 !
 !       Build the COBOL-81 compiler.
 !

 RUN SY:[1,2]TKB.TSK
 TKB>@C81BLD.CMD




 Ready


 !
 !
 !       Copy built components to the appropriate places.
 !
 RUN SY:[1,2]PIP.SAV
 *TKBC81.CMD/DE
 *SY:[1,2]C81ODL.TSK,SY:[1,2]C81RFM.TSK/DE:NO
 *SY:[1,2]C81ODL.TSK,SY:[1,2]C81RFM.TSK,SY:[1,2]C81TRA.TSK/DE:NO
 *SY:[1,2]<104>=MM1:[1,2]C81ODL.TSK/NOREW/RTS:RSX
 *SY:[1,2]<104>=MM1:[1,2]C81RFM.TSK/NOREW/RTS:RSX
 *SY:[1,2]<104>=MM1:[1,2]C81TRA.TSK/NOREW/RTS:RSX
 *LB:<40>=MM1:[1,2]C81CIS.OLB/NOREW
 *LB:<40>=MM1:[1,2]C81LIB.OLB/NOREW
 *LB:<40>=MM1:[1,2]C81DBG.OLB/NOREW
 *LB:<40>=MM1:[1,2]C81DBG.ODL/NOREW
 *LB:<40>=MM1:[1,2]C81DBC.ODL/NOREW
 *LB:<40>=MM1:[1,2]C81DBN.ODL/NOREW
```

If your kit does not include the Translator

If your kit includes the Translator

```
*LB:<40>=MM1:[1,2]C81DBG.HLP/NOREW
*SY:[1,2]<40>=MM1:[1,2]DCLC81.HLP/NOREW
*LB:<40>/RMS=MM1:[1,2]C81RTE.TXT/NOREW
*SY:[1,2]C81.TMP=C81.TSK
*C81.TSK,C81INS.TSK,C81TMP.ODL,C81TMP.CMD/DE
*SY:[1,2]C81.TSK/DE:NO
*SY:[1,2]<104>C81.TSK=SY:[1,2]C81.TMP/RE
*LB:C81.TMP=C81BLD.CMD
*C81BLD.CMD/DE
*LB:C81BLD.CMD/DE:NO
*LB:<40>C81BLD.CMD=LB:C81.TMP/RE
*LB:C81.TMP=C81BLD.ODL
*C81BLD.ODL/DE
*LB:C81BLD.ODL/DE:NO
*LB:<40>C81BLD.ODL=LB:C81.TMP/RE
*LB:<40>=MM1:[1,2]C81LRL.OLB/NOREW
*LB:<40>=MM1:[1,2]C81LIB.ODL/NOREW
*LB:<40>=MM1:[1,2]C81CRL.OLB/NOREW
*LB:<40>=MM1:[1,2]C81CIS.ODL/NOREW
*LB:C81.TMP=C81RES.CMD/RMS:FA
*C81RES.CMD/DE
*LB:C81RES.CMD/DE:NO
*LB:<40>C81RES.CMD=LB:C81.TMP/RE
*^Z

Ready

!
! BUILD RESIDENT LIBRARIES IF REQUESTED
!
!
!  Indirect command file for building COBOL-81 resident libraries
!
!
```

.
.
.

The command sequence for building resident libraries has been omitted from the display, since it will vary according to your answer to the resident library question. The INSC81 procedure then continues with the auto-patch command sequence and the CCL installation command sequence.

If COBOL-81 has been previously installed on your system, the CCL installation procedure must delete old versions of COBOL-81 files before creating new versions. If this is the first installation of COBOL-81 on your system, the following message will appear on your display:

```
"?Can't find file or account - in CCL"
```

This message indicates that the procedure found no old versions of COBOL-81 files on your system.

```
Ready


!
!
! AUTO-PATCH PROCEDURE FOR COBOL-81
!
!
!
! NO PATCHES FOUND OR PATCHING NOT SELECTED
!
!
!
!       Add the COBOL-81 CCLs.
!
RUN SY:[1,2]UTILTY
UTILTY  V8.n-nn              RSTS/E V8.n-nn Installation Name
#CCL C81=
#CCL BLDODL=
#CCL RFM-T=
#CCL T81=
#CCL C81=SY:[1,2]C81.TSK
#CCL BLD-ODL=SY:[1,2]C81ODL.TSK
#CCL RFM-T=SY:[1,2]C81RFM.TSK
#CCL T81=SY:[1,2]C81TRA.TSK
#^Z

Ready

!
!
!       Now compile and task build the
!       installation certification program
!
!
RUN SY:[1,2]PIP.SAV
*SY:=MM1:[1,2]C81ICP.CBL/NOREW
*^Z

Ready


RUN SY:[1,2]C81.TSK
```

If your kit includes the Translator

If your kit includes the Translator

NOTE

If the system message "Odd address trap" appears at this point, the installation has failed. This error may mean that the wrong run-time system was assigned to the system Task Builder. Use PIP to assign the RSX-11 run-time system to the Task Builder and start the installation procedure again with RUN $BUILD.

```
C81>C81ICP,C81ICP=C81ICP/BLD/-CVF/-DEB/SKL
C81>^Z

Ready


RUN SY:[1,2]TKB.TSK
TKB>@C81ICP.CMD

Ready


RUN C81ICP.TSK

**********************************************************
**      This is the COBOL-81 installation               **
**  certification procedure.  If the messages:          **
**                                                      **
**                C81IC1 has passed.                    **
**                                                      **
**                C81IC2 has passed.                    **
**                                                      **
**  follow this message, then the installation          **
**  of COBOL-81 V2.3 was successful; otherwise,         **
**       the installation was unsuccessful.             **
**********************************************************

C81IC1 has passed.

C81IC2 has passed.

**********************************************************
**  End of installation certification procedure.        **
**********************************************************
```

The installation certification procedure consists of a COBOL program with two tests, C81IC1 and C81IC2. The following information describes these tests and explains the corrections to be made when the installation certification fails.

1. The first test, C81IC1, verifies whether you have correctly specified that the compiler should generate CIS or NONCIS code. If the message "RESERVED INSTRUCTION" is displayed, you have built a compiler that generates CIS code by default on a PDP-11 processor with no Commercial Instruction Set (CIS).

   Unless you are building this compiler for another PDP-11 computer that has CIS, restart the installation procedure using the RUN $BUILD command. When the program asks for the type of code to generate, answer NONCIS.

2. The second test, C81IC2, determines if the correct version of COBOL-81 has been installed. If the message "C81IC2 has failed..." is displayed, you must examine the installation output listing for error messages and correct the errors. Then begin the installation procedure again, starting with the RUN $BUILD command.

After the installation certification procedure, BUILD displays the following:

```
Ready


RUN SY:[1,2]PIP.SAV
*C81ICP.CBL,C81ICP.OBJ,C81ICP.LST,C81ICP.SKL/DE
*C81ICP.ODL,C81ICP.CMD,C81ICP.TSK/DE
*^Z


Ready
!
!       Copy the summary of changes from Version 2.3
!
RUN SY:[1,2]PIP.SAV
*SY:=MM1:[1,2]C81UPD.MEM/NOREW
*^Z

Ready


!
!
!       COBOL-81 V2.3 is now built.
!


!*** BUILD Complete ***
```

1.3 THE STARTUP CONTROL FILE

After installing COBOL-81, use a text editor to modify the start-up control file (START.CTL) to include the following UTILTY commands. The CCL commands will thus be defined at the start of each time-sharing session.

```
CCL  C81=SY:[1,2]C81.TSK
CCL  BLD-ODL=SY:[1,2]C81ODL.TSK
CCL  RFM-T=SY:[1,2]C81RFM.TSK
CCL  T81=SY:[1,2]C81TRA.TSK
```

If your kit includes the Translator

The installation process leaves the following files in system accounts [0,1], [1,2], and LB:.

[0,1]	C81LIB.LIB	Used with NONCIS resident library (only if NONCIS resident library is built)
	C81CIS.LIB	Used with CIS resident library (only if CIS resident library is built)
[1,2]	C81ODL.TSK	BLDODL task image
	C81RFM.TSK	REFORMAT task image
	C81.TSK	COBOL-81 task image

LB:	C81BLD.OLB	Compiler module library
	C81CIS.OLB	CIS object-time library
	C81LIB.OLB	NONCIS object-time library
	RMSC81.ODL	RMS-11 Overlay Description for compiler
	C81DBG.OLB	Symbolic Debugger object-time library
	C81DBG.ODL	Task Builder Overlay Description file for the Symbolic Debugger
	C81DBC.ODL	Task Builder Overlay Description file for the Symbolic Debugger
	C81DBN.ODL	Task Builder Overlay Description file for the Symbolic Debugger
	C81DBG.HLP	Help file for the Symbolic Debugger
	C81BLD.CMD	Command file for COBOL-81 compiler task build
	C81BLD.ODL	COBOL-81 compiler Overlay Description file
	C81RES.CMD	Command file for COBOL-81 resident library building
	C81RTE.TXT	Run-time error messages

The following files are left in LB: if the NONCIS resident library is built:

C81LRL.OLB	NONCIS user's resident object library
C81LIB.ODL	NONCIS user's resident library Overlay Description file
C81LIB.TSK	Task image file used to build NONCIS resident library
C81LIB.STB	Symbol table file used to build NONCIS resident library

The following files are left in LB: if the CIS resident library is built:

C81CRL.OLB	CIS user's resident object library
C81CIS.ODL	CIS user's resident library Overlay Description file
C81CIS.TSK	Task image file used to build CIS resident library
C81CIS.STB	Symbol table file used to build CIS resident library

The installation process leaves the following file in the account from which you installed the compiler:

C81UPD.MEM	A file containing a summary of changes to COBOL-81 V2.3

If you plan to use one of the COBOL-81 resident libraries, you can now install it. Use the UTILTY ADD LIBRARY command, described in the RSTS/E System Manager's Guide.

CHAPTER 2

COBOL-81 VERSION 2.3 KIT CONTENTS

The following files are contained in the COBOL-81 release kit for use on RSTS/E Version 8.0. The files reside in the system library account [1,2].

C81BLD.CTL	Control file for input to $BUILD
C81TMP.CMD	Task Builder command file for compiler
C81TMP.ODL	Task Builder Overlay Description file for compiler
C81INS.TSK	Program that prompts for compiler parameters and creates C81BLD.CMD and C81BLD.ODL
C81BLD.OLB	Compiler module library
C81CIS.OLB	CIS object-time library
C81LIB.OLB	NONCIS object-time library
RMSC81.ODL	RMS-11 Overlay Description for compiler
C81DBG.OLB	Symbolic Debugger object-time library
C81DBG.ODL	Task Builder Overlay Description file for Symbolic Debugger
C81DBC.ODL	Task Builder Overlay Description file for Symbolic Debugger
C81DBN.ODL	Task Builder Overlay Description file for Symbolic Debugger
C81DBG.HLP	Help file for Symbolic Debugger
C81RTE.TXT	Run-time error messages
C81ICP.CBL	Installation certification program source
C81ODL.TSK	BLDODL task image
C81RFM.TSK	REFORMAT task image
C81CRL.OLB	CIS user's resident object library
C81CIS.ODL	CIS user's resident library Overlay Description file
C81LRL.OLB	NONCIS user's resident object library
C81LIB.ODL	NONCIS user's resident library Overlay Description file
C81UPD.MEM	File containing a summary of changes to COBOL-81 V2.3

The following files are also in the kit but are not copied to the user's disk. These files are the source files and Task Builder command files for the BLDODL and REFORMAT utilities. You can edit these files to customize the BLDODL and REFORMAT utilities for your own use.

C81ODL.CBL	BLDODL source
C81ODL.ODL	Task Builder Overlay Description file for BLDODL
C81ODL.CMD	Task Builder command file for BLDODL
C81ODM.MAC	BLDODL MACRO subroutine source
C81RFM.CBL	REFORMAT source
C81ANS.CBL	REFORMAT ANSI-to-terminal subroutine source
C81TER.CBL	REFORMAT terminal-to-ANSI subroutine source
C81RFM.ODL	Task Builder Overlay Description file for REFORMAT
C81RFM.CMD	Task Builder command file for REFORMAT

CHAPTER 3

RELEASE NOTES

3.1 DIFFERENCES AMONG VERSIONS OF COBOL-81

Cumulative information on differences among versions of COBOL-81 is contained in the file C81UPD.MEM. This file resides in the account from which you made the installation. For easier reference, you may wish to copy this file onto another disk or spool it to a printer.

COBOL–81 RSTS/E Installation Guide/Release Notes
AA–L028E–TC

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- ☐ Higher-level language programmer
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