

**CRISP Automation Systems Documentation**

**Manual Number: MAN-CSP-INST-031**

**Subject: CRISP 3.1 Software Product Description**

**Date Created: 08/16/2002 Revision 1.0 Date Revised: 08/16/2002**

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N/A

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## Installation

### **General**

This manual provides a step-by-step installation procedure for CRISP/32, Version 3.1 and later, systems. This procedure can be used for a new installation or for updating an existing CRISP system. This manual is broken down into the following sections.

<b>Section</b>	<b>Description</b>
On-Line Release Notes	Defines the location of the release notes and how to access the notes.
Requirements	Defines the system requirements before installation of CRISP/32.
Using VMSINSTAL	Defines the VMSINSTAL command
Installing CRISP/32 on VAX	Defines the procedures required to install CRISP/32 on VAX.
Installing CRISP/32 on Alpha	Defines the procedures required to install CRISP/32 on Alpha.

### **NOTE**

**Before performing this installation procedure, verify that the system**

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**hardware and software has been properly installed per the appropriate OpenVMS documentation.**

**Refer to the Software Product Description (SPD) document for details on required OpenVMS software.**

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## On-Line Release Notes

### ***General***

On-line release notes are provide with each distribution of CRISP/32. When VMSINSTAL is invoked with the `OPTIONS N` parameter, a prompt to print or display the release notes appears during the installation.

After CRISP/32 has been installed, the release notes may be printed or typed by accessing the file `SYS$HELP:CRISP031.RELEASE_NOTES`.

The release notes for each release of CRISP are distributed for those users who are upgrading by several versions at once.

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## Requirements

### **General**

Depending on the media and the system configuration, the installation of CRISP/32 takes approximately 10 to 30 minutes. The following privileges and resources must be set before CRISP/32 can be installed.

- SETPRV privileges, or CMKRNL, WORLD, and SYSPRV privileges
- Free disk space as follows (VAX):
  - 1800 blocks on the system disk
  - 7300 blocks on the CRISP disk plus the following:
    - 2600 blocks if CRT support is selected
    - 4600 blocks if CWS support is selected,
    - 15500 blocks if the sample files are requested.
- Free disk space as follows (Alpha):
  - 5000 blocks on the system disk
  - 20000 blocks on the CRISP disk plus the following:
    - 15500 blocks if the sample files are requested.
- An additional amount of disk space equal to the total of the previous numbers is required on the system disk during installation. This space will be released when the installation completes or otherwise terminates.
- A minimum of 32 MB (VAX) or 128 MB (Alpha) of physical memory. More memory will be required for large applications and layered products.
- A minimum of 500 free global pages. This will have to be increased further if, for some reason, your DCL tables file (SYS\$COMMON: [SYSLIB]DCLTABLES.EXE) is larger than 500 blocks.
- A minimum of 8 free global sections at installation.

### **NOTE**

**Ensure that the system has the necessary global page and global section SYSGEN quotas for the installation. Failure to do so could cause the DCL tables to be corrupted.**

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### ***Global Pages***

The number of global pages on the system may be determined by invoking the VMS Install Utility as follows.

```
$ INSTALL LIST/GLOBAL/SUMMARY
```

The system responds by displaying a summary of the number of global sections used, the number of global pages used, and the number of global pages unused.

Installation of CRISP/32 requires approximately as many contiguous global pages as the size of the DCLTABLES file. If there are less than that many pages available, delete an existing known image via the VMS Install Utility, or increase the GBLPAGES system parameter by editing the file `SYS$SYSTEM:MODPARAMS.DAT` and then invoking the AUTOGEN command procedure, `SYS$UPDATE:AUTOGEN.COM`. Refer to the appropriate installation/operations guide for more information on the AUTOGEN command procedure.

### ***Global Sections***

The number of available global sections on the system may be determined by invoking SYSGEN as follows.

```
$ RUN SYS$SYSTEM:SYSGEN <ret>
SYSGEN> USE CURRENT <ret>
SYSGEN> SHOW GBLSECTIONS <ret>
SYSGEN> EXIT <ret>
```

The last number displayed is the maximum number of global sections. Compare this number to the number of global sections in use displayed by the VMS Install Utility. If the number of global sections used plus 8 exceeds the maximum number of global sections, the number of global sections must be increased before CRISP/32 can be installed. To increase the global sections, the GBLSECTIONS system parameter must be increased by editing the file `SYS$SYSTEM:MODPARAMS.DAT` and invoking the `SYS$UPDATE:AUTOGEN.COM` procedure. Refer to the appropriate installation/operations guide for more information on the AUTOGEN procedure.

If the number of global sections used plus 8 is less than the maximum number of global

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sections, exit from SYSGEN and continue with the installation.

**NOTE**

**The requirements for global pages and global sections defined in this section are those for installation of CRISP/32 only. The requirements for running CRISP/32 depends on your system and configuration, user databases, and layered products being used.**

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# Using VMSINSTALL

## *Description*

VMSINSTALL is the command procedure invoked to install CRISP/32. Before invoking this command procedure, log into the system management account, username SYSTEM. Execution of the VMSINSTALL command procedure is shown in steps 1 and 2 of the Installing CRISP/32 sections of this manual.

## *Format*

The VMSINSTALL command procedure has the following syntax.

```
$ @SYS$UPDATE:VMSINSTALL CRISP031 ddcu: [OPTIONS N]
```

**ddcu:** Represents a device name where the distribution volumes are mounted for the CRISP/32 installation media, where **dd** is the device code, **c** is the controller code, and **u** is the unit number. The device name used in examples in this manual is **MUA0:.**

**OPTIONS N** Is an optional parameter used if you want to be prompted to display or print the CRISP/32 release notes. If omitted, you are not prompted to display the release notes.

## *How It Works*

If you do not supply the first two parameters, VMSINSTALL prompts you for the product and device names. The syntax in this case would be as follows.

```
$ @SYS$UPDATE:VMSINSTALL
```

When VMSINSTALL is invoked, the following are checked.

- Whether you are logged in to a privileged account. It is recommended that you install

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software from the system manager's account.

- Whether you have adequate quotas for installation. VMSINSTAL checks for the following quota values.
  - ASTLM = 24
  - BIOLM = 18
  - BYTLM = 18000
  - DIOLM = 18
  - ENQLM = 30
  - FILLM = 20

At this point in the installation, VMSINSTAL checks whether any user processes are running. If VMSINSTAL detects these processes, you are prompted as to whether you want to continue the installation. Enter YES to continue or <return> to stop the installation.

If CRISP is running, installation is not possible. The installation kit detects this situation and aborts before any changes are made to the system.

### **NOTE**

**Unpredictable results may occur if other users are logged in during the installation.**

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# Installing CRISP/32 on VAX

## ***General***

This section contains explains the installation procedure for VAX processors. Defaults, where available, appear in brackets throughout the installation procedure.

The installation procedure may be aborted at any time by entering CTRL/Y. If CTRL/Y is pressed, the installation procedure deletes all files it has created up to that point and returns you to the VMSINSTAL prompt.

## ***Installation Procedure***

Perform the following steps to install CRISP/32.

### **Step 1. Log in to a privileged account.**

```
<Ret>
Username: SYSTEM<Ret>
Password: <Ret>
$ SET DEFAULT SYS$UPDATE <Ret>
```

### **Step 2. Invoke VMSINSTAL**

```
$ @VMSINSTAL CRISP031 MUA0: OPTIONS N <Ret>
```

OpenVMS VAX Software Product Installation Procedure V7.3

It is 16-AUG-2002 at 19:30

Enter a question mark (?) at any time for help.

Are you satisfied with the backup of you system disk [YES]? <Ret>

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Press the Return key if you are satisfied with the backup of your system disk; otherwise, enter NO to discontinue the installation procedure.

### **Step 3. Mount the first installation kit volume**

Please mount the first volume of the set on MUA0:.  
Are you ready? **YES** <Ret>

The following products will be processed:

CRISP V3.1

Beginning installation of CRISP V3.1 at 19:35

%VMSINSTAL-I-RESTORE, Restoring saveset A...

To continue the installation, mount volume 1 and enter YES.

### **Step 4. Select a release notes option**

This step applies only if OPTIONS N was specified in step 2.

Release Notes Options:

1. Display release notes
2. Print release notes
3. Both 1 and 2
4. None of the above

Select option [2]: <Ret>

If option 1 is selected, VMSINSTAL displays the release notes. Terminate the display by pressing CTRL/C. At this time, VMSINSTAL copies the release notes to SYSS\$HELP.

If option 2 is selected, VMSINSTAL prompts you for a queue name (use this option only if a print queue has been setup on your system). Either enter a queue name or press the Return

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key to send the file to the default output print device. After printing the release notes, VMSINSTAL copies the release notes to SYSS\$HELP.

Queue name [SYS\$PRINT]: <Ret>

If option 3 is selected, VMSINSTAL displays the release notes. Terminate the display by pressing CTRL/C. VMSINSTAL then prompts you for a queue name. Either enter a queue name or press the Return key to send the file to the default output print device. After printing the release notes, VMSINSTAL copies the release notes to SYSS\$HELP.

If option 4 is selected, VMSINSTAL does not display, print, or copy the release notes. It prompts you to decide whether to continue the installation.

Do you want to continue the installation [N]: Y <Ret>

Enter YES to continue the installation. If you enter NO, VMSINSTAL discontinues the installation.

### NOTE

The version of the CRISP/32 release notes file installed by VMSINSTAL is labeled with the current product name and version number (e.g., CRISP031.RELEASE\_NOTES). Do not delete release notes for previous versions of CRISP.

### Step 5. Installation questions

This section shows the questions that are asked during installation on VAX.

Do you want to purge files replaced by this installation [YES]?

The system directory SYSS\$LIBRARY and the CRISP directories may contain previous versions of CRISP files. New versions of these files are provided during installation, but the old files will not be purged unless you answer YES to this question.

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Enter device name for CRISP files [DISK\$USER:]:

Enter a logical or physical name for the disk drive on which the CRISP files are to be installed. If you are upgrading from a previous version of CRISP, this should be the same as the disk on which CRISP is currently installed. If this is a new installation, a [CRISP] directory and several subdirectories will be created on this disk.

Are you upgrading an existing CRISP system [YES]?

This question is only asked if a [CRISP] directory is found on the specified disk. If you answer YES, the installation will proceed. If you answer NO, the installation will be terminated.

Are you upgrading from CRISP Vxx.xx-xx [YES]?

Are you upgrading from a CRISP version before V3.1 [YES]?

When upgrading from a version of CRISP before V3.1, special changes need to be made to the CRISP configuration. If the installation kit can find the CRISP version string, the first question is asked. If the user answers No, or no version string can be found, the second question is asked.

Enter CRISP account UIC [[50,1]]:

This question is only asked if no [CRISP] directory is found on the specified disk. It is assumed that this is a new installation of CRISP/32. Accounts CRISP and CRISPD will be created with the UIC specified. Normally, the default answer is acceptable. If a different UIC is specified, it must have the proper format (two octal number separated by a comma and enclosed in brackets, i.e., [123,456]).

Install these files in system directories?

This question is only asked during new installations. If you answer YES, previous versions of these files in the system directories will not be purged regardless of how the purge files question was answered. If you answer NO, these files will be put into the [CRISP.UTL.SYS] directory.

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Do you want to install Basic Workstation files [NO]?

Answer YES if you use the CRISP Basic Workstation (CRT) on your system; otherwise, answer NO. Note: The CRISP Basic Workstation is a deprecated product, and is untested.

Do you want to install Color Workstation files [NO]?

Answer YES if you use the CRISP Color Workstation (CWS) or PC Workstation (PCWS) on your system; otherwise, answer NO.

Do you want to install the sample files [NO]?

Answer YES if you want the sample files installed; otherwise, answer NO.

Do you use CRISPView [NO]?

Are you using CRISPView version 2.4 or later?

Very old CRISPView versions do not work against this version of CRISP. If the first question is answered Yes, the second question is asked. If the answer to the second question is No, the installation terminates.

Will the CRISP-WWSPLUS license be installed later [NO]?

This question is asked only if a CRISP security file, CRISP\$CFG:CRISP\_UAF.IDX, was found on the system. The format of this file has changed from previous CRISP versions, and the installation procedure will convert the file, if necessary. The conversion is dependent on whether or not the Enhanced Security license will be installed. If the license has not already been installed, the user is asked if the license will be installed later.

Password lifetime, days (0 = none) [x]?

Minimum autologout time, minutes (0 = none) [x]?

Login failure limit (0 = none, 5 max) [x]?

These questions are asked only if a CRISP security file, CRISP\$CFG:CRISP\_UAF.IDX, was found on the system. The values for "x" are those previously configured. If not previously configured, default values are presented.

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Delete these files [Yes]?

This question is asked only if upgrading from a version prior to V3.1. By deleting these files, database transfers will be prevented until after CRISP start, when the user runs the DBTCMD or IDCCMP command. This is necessary because the structure of databases changed in V3.1.

Delete these database files [Yes]?

This question is asked only if upgrading from a version prior to V3.1, and user database files were found in CRISP\$DB. Deleting these files prevents a "CRSTART RESTORE", which would corrupt the databases, due to the change in structure in V3.1.

Save the values from the database files [No]?

This question is asked only if user database files were found in CRISP\$DB. Some installations expect that "CRSTART RESTORE" will always restore the values that the databases had at CRISP shutdown. This option allows those values to be saved during installation, and then inserted during logic build (LGBUILD command). Using this option can greatly increase installation time, depending on the size of the databases.

### Step 6. End the installation procedure

When the installation procedure completes, the following message is displayed.

```
VMSINSTAL procedure is done at hh:mm  
$
```

The distribution media (tape) may now be removed from the drive.

### Step 7. Log in to the CRISP account

Log out of the SYSTEM account and log into the CRISP account.

```
<Ret>  
Username: CRISP<Ret>
```

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### Step 8. Configure CRISP

Enter the following command to configure the CRISP/32 system. The user is prompted regarding the configuration of the target VAX and CRISP/32 system hardware.

```
$ @CRISP_CONFIG<Ret>
```

### NOTE

**This step must always be performed when updating to a new version of CRISP/32 even if the hardware configuration has not changed.**

### Step 9. Configure user logics

Move to the CRISP/32 logic source directory.

```
$ SD CRISP$LOG<Ret>
```

The following command defines the user databases and logics. At this point, the CRISP system can be started; but, there are no user databases and logics. This procedure defines them so they are include in the CRISP startup. If you have installed the sample logic files, they are located in a subdirectory of [CRISP.LOG]. To move to that directory, enter the following command.

```
$ SD CRISP$LOG_SAMP<Ret>
```

The user is prompted to define all databases and all logics that run against the databases. When all of the databases and logics have been defined, enter a return at the 'Enter New database filespec' prompt.

```
$ LGCONFIG<Ret>
```

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### **NOTE**

**This step usually need not be repeated when upgrading to a new version of CRISP/32. Refer to the release notes for exceptions.**

### **Step 10. Build user logics**

Enter the following commands to compile and build User databases and logics. This procedure compiles and builds user databases and logics, making them ready for use by the CRISP system at startup. The user is prompted for the CRISP/32 source and what is to be done to it.

```
$ LGBUILD<Ret>
```

### **NOTE**

**Logics must always be rebuilt when updating to a new major or minor version of CRISP/32. Rebuilding is usually not necessary when moving to a new "dash" version. Refer to the release notes for exceptions.**

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## Installing CRISP/32 on Alpha

### **General**

This section contains explains the installation procedure for Alpha processors. Defaults, where available, appear in brackets throughout the installation procedure.

The installation procedure may be aborted at any time by entering CTRL/Y. If CTRL/Y is pressed, the installation procedure deletes all files it has created up to that point and returns you to the VMSINSTAL prompt.

### **Installation Procedure**

Perform the following steps to install CRISP/32.

#### **Step 1. Log in to a privileged account.**

```
<Ret>
Username: SYSTEM<Ret>
Password: <Ret>
$ SET DEFAULT SYS$UPDATE <Ret>
```

#### **Step 2. Invoke VMSINSTAL**

```
$ @VMSINSTAL CRISP031 MUA0: OPTIONS N <Ret>
```

OpenVMS AXP Software Product Installation Procedure V7.3

It is 16-AUG-2002 at 19:30

Enter a question mark (?) at any time for help.

Are you satisfied with the backup of you system disk [YES]? <Ret>

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Press the Return key if you are satisfied with the backup of your system disk; otherwise, enter NO to discontinue the installation procedure.

### **Step 3. Mount the first installation kit volume**

Please mount the first volume of the set on MUA0:.  
Are you ready? **YES** <Ret>

The following products will be processed:

CRISP V3.1

Beginning installation of CRISP V3.1 at 19:35

%VMSINSTAL-I-RESTORE, Restoring saveset A...

To continue the installation, mount volume 1 and enter YES.

### **Step 4. Select a release notes option**

This step applies only if OPTIONS N was specified in step 2.

Release Notes Options:

1. Display release notes
2. Print release notes
3. Both 1 and 2
4. None of the above

Select option [2]: <Ret>

If option 1 is selected, VMSINSTAL displays the release notes. Terminate the display by pressing CTRL/C. At this time, VMSINSTAL copies the release notes to SYSS\$HELP.

If option 2 is selected, VMSINSTAL prompts you for a queue name (use this option only if a print queue has been setup on your system). Either enter a queue name or press the Return

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key to send the file to the default output print device. After printing the release notes, VMSINSTAL copies the release notes to SYSS\$HELP.

Queue name [SYS\$PRINT]: <Ret>

If option 3 is selected, VMSINSTAL displays the release notes. Terminate the display by pressing CTRL/C. VMSINSTAL then prompts you for a queue name. Either enter a queue name or press the Return key to send the file to the default output print device. After printing the release notes, VMSINSTAL copies the release notes to SYSS\$HELP.

If option 4 is selected, VMSINSTAL does not display, print, or copy the release notes. It prompts you to decide whether to continue the installation.

Do you want to continue the installation [N]: Y <Ret>

Enter YES to continue the installation. If you enter NO, VMSINSTAL discontinues the installation.

### NOTE

The version of the CRISP/32 release notes file installed by VMSINSTAL is labeled with the current product name and version number (e.g., CRISP031.RELEASE\_NOTES). Do not delete release notes for previous versions of CRISP.

### Step 5. Installation questions

This section shows the questions that are asked during installation on an Alpha.

Do you want to purge files replaced by this installation [YES]?

The system directory SYSS\$LIBRARY and the CRISP directories may contain previous versions of CRISP files. New versions of these files are provided during installation, but the old files will not be purged unless you answer YES to this question.

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Enter device name for CRISP files [DISK\$USER:]:

Enter a logical or physical name for the disk drive on which the CRISP files are to be installed. If you are upgrading from a previous version of CRISP, this should be the same as the disk on which CRISP is currently installed. If this is a new installation, a [CRISP] directory and several subdirectories will be created on this disk.

Are you upgrading an existing CRISP system [YES]?

This question is only asked if a [CRISP] directory is found on the specified disk. If you answer YES, the installation will proceed. If you answer NO, the installation will be terminated.

Are you upgrading from CRISP Vxx.xx-xx [YES]?

Are you upgrading from a CRISP version before V3.1 [YES]?

When upgrading from a version of CRISP before V3.1, special changes need to be made to the CRISP configuration. If the installation kit can find the CRISP version string, the first question is asked. If the user answers No, or no version string can be found, the second question is asked.

Enter CRISP account UIC [[50,1]]:

This question is only asked if no [CRISP] directory is found on the specified disk. It is assumed that this is a new installation of CRISP/32. Accounts CRISP and CRISPD will be created with the UIC specified. Normally, the default answer is acceptable. If a different UIC is specified, it must have the proper format (two octal number separated by a comma and enclosed in brackets, i.e., [123,456]).

Install these files in system directories?

This question is only asked during new installations. If you answer YES, previous versions of these files in the system directories will not be purged regardless of how the purge files question was answered. If you answer NO, these files will be put into the [CRISP.UTL.SYS] directory.

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Do you want to install the sample files [NO]?

Answer YES if you want the sample files installed; otherwise, answer NO.

Do you use CRISPView [NO]?

Are you using CRISPView version 2.4 or later?

Very old CRISPView versions do not work against this version of CRISP. If the first question is answered Yes, the second question is asked. If the answer to the second question is No, the installation terminates.

Will the CRISP-WWSPLUS license be installed later [NO]?

This question is asked only if a CRISP security file, CRISP\$CFG:CRISP\_UAF.IDX, was found on the system. The format of this file has changed from previous CRISP versions, and the installation procedure will convert the file, if necessary. The conversion is dependent on whether or not the Enhanced Security license will be installed. If the license has not already been installed, the user is asked if the license will be installed later.

Password lifetime, days (0 = none) [x]?

Minimum autologout time, minutes (0 = none) [x]?

Login failure limit (0 = none, 5 max) [x]?

These questions are asked only if a CRISP security file, CRISP\$CFG:CRISP\_UAF.IDX, was found on the system. The values for "x" are those previously configured. If not previously configured, default values are presented.

Delete these files [Yes]?

This question is asked only if upgrading from a version prior to V3.1. By deleting these files, database transfers will be prevented until after CRISP start, when the user runs the DBTCMD or IDCCMP command. This is necessary because the structure of databases changed in V3.1.

Delete these database files [Yes]?

This question is asked only if upgrading from a version prior to V3.1, and user database files were found in CRISP\$DB. Deleting these files prevents a "CRSTART RESTORE", which would

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corrupt the databases, due to the change in structure in V3.1.

Save the values from the database files [No]?

This question is asked only if user database files were found in CRISP\$DB. Some installations expect that "CRSTART RESTORE" will always restore the values that the databases had at CRISP shutdown. This option allows those values to be saved during installation, and then inserted during logic build (LGBUILD command). Using this option can greatly increase installation time, depending on the size of the databases.

### **Step 6. End the installation procedure**

When the installation procedure completes, the following message is displayed.

```
VMSINSTAL procedure is done at hh:mm
$
```

The distribution media (tape) may now be removed from the drive.

### **Step 7. Log in to the CRISP account**

Log out of the SYSTEM account and log into the CRISP account.

```
<Ret>
Username: CRISP<Ret>
```

### **Step 8. Configure CRISP**

Enter the following command to configure the CRISP/32 system. The user is prompted regarding the configuration of the target Alpha and CRISP/32 system hardware.

```
$ @CRISP_CONFIG<Ret>
```

### **NOTE**

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**This step must always be performed when updating to a new version of CRISP/32 even if the hardware configuration has not changed.**

### Step 9. Configure user logics

Move to the CRISP/32 logic source directory.

```
$ SD CRISP$LOG<Ret>
```

The following command defines the user databases and logics. At this point, the CRISP system can be started; but, there are no user databases and logics. This procedure defines them so they are include in the CRISP startup. If you have installed the sample logic files, they are located in a subdirectory of [CRISP.LOG]. To move to that directory, enter the following command.

```
$ SD CRISP$LOG_SAMP<Ret>
```

The user is prompted to define all databases and all logics that run against the databases. When all of the databases and logics have been defined, enter a return at the 'Enter New database filespec' prompt.

```
$ LGCONFIG<Ret>
```

### NOTE

**This step usually need not be repeated when upgrading to a new version of CRISP/32. Refer to the release notes for exceptions.**

### Step 10. Build user logics

Enter the following commands to compile and build User databases and logics. This procedure compiles and builds user databases and logics, making them ready for use by the CRISP system

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at startup. The user is prompted for the CRISP/32 source and what is to be done to it.

```
$ LGBUILD<Ret>
```

### NOTE

**Logics must always be rebuilt when updating to a new major or minor version of CRISP/32. Rebuilding is usually not necessary when moving to a new "dash" version. Refer to the release notes for exceptions.**

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