

BLAST[®]

Professional VMS Installation Guide



The File Transfer Authority

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System Requirements and Media Types

VAX System Requirements

- ◇ VMS Rev. 5.5 or higher must be installed as the current operating system.
- ◇ An asynchronous communications port must exist in the system configuration.

Alpha System Requirements

- ◇ Open VMS Rev. 6.1 or higher must be installed as the current operating system.
- ◇ An asynchronous communications port must exist in the system configuration.

Media Types

VAX

TK50 tape
CD ROM

Alpha

RX26 3 1/2" diskette
4mm DAT tape
CD ROM

Distribution Media Files

Files are in a compressed format on the distribution media. Consult the readme file installed in your BLAST directory for a complete list of distribution media files.

Installation Procedure

BLAST is installed through the utility VMSINSTAL. We recommend that the System Administrator install BLAST. To install BLAST, follow these steps:

1. Put the BLAST distribution media in the appropriate drive.
2. Login to the VMS system.
3. If installing from the CD, mount the CD by typing the following:

```
mount device vmsblast107 logname ENTER
```

where *device* is the name of the CD ROM drive, and *logname* is the name of the logical you wish to assign to the CD ROM drive. For example,

```
mount dka500: vmsblast107 cdrom ENTER
```

4. Type the following command:

```
set default sys$update ENTER
```

5. To begin the VMS installation utility, type:

```
@vmsinstal ENTER
```

The VMSINSTAL procedure will begin. Note that the prompts in this procedure will vary slightly, depending on the type of operating system.

6. The following messages and prompt will then be displayed:

```
VAX/VMS Software Product Installation Procedure Vx.x
```

```
It is 4 -OCT-2001 at 08:28.
```

```
* Are you satisfied with the backup of your system disk [YES]?
```

If you do not have a reliable back up, type:

```
n ENTER
```

and then back up your system before restarting VMSINSTAL.

If you do have a reliable backup, type:

```
y ENTER
```

8. The following prompt will then appear:

```
* Where will the distribution volumes be mounted?:
```

If you are installing from a tape or diskette, type:

```
device ENTER
```

where *device* is the name of the drive from which you are installing. For example,

```
dka600: ENTER
```

If you are installing from a CD ROM, type:

```
logname:[dirname]blast107.a ENTER
```

where *logname* is the symbol for the drive from which you are installing and *dirname* is the directory (VAXVMS5, ALPHAVMS6, or ALPHAVMS7) in which the saveset blast107.a is found. For example,

```
cdrom:[alphavms7]blast107.a ENTER
```

9. In response to the following prompt:

Enter the products to be processed from the first distribution volume set.
* *PRODUCTS:*

type:

```
blast107 ENTER
```

For some versions of VMS, the prompt will say:

* *Enter installation options you wish to use (none):*

If you see this prompt, press ENTER.

10. VMS will then run the procedure to install the BLAST program. The first prompt will ask if you are ready to mount the BLAST media:

Please mount the first volume of the set on [device].
* *Are you ready?*

where *[device]* is the drive from which you are installing. Type:

```
y ENTER
```

to indicate that you are ready to mount the media or that you have already mounted a CD ROM. You will then see a series of messages verifying that the media has been mounted and informing you about products to be installed and the progress of the installation:

%MOUNT-I-MOUNTED, BLAST mounted on [device]

The following products will be processed:

BLAST V10.7

Beginning installation of BLAST V10.7 at 08:30

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

11. At the prompt:

The BLAST executables are placed in SYSSYSTEM by default. If you would like them placed elsewhere, please specify the name of an alternate directory. (Default = SYSSYSTEM):

enter the name of the directory in which you wish to install the BLAST executables or press ENTER for the default directory, SYSSYSTEM.

12. At the next prompt:

The BLAST support files are placed in SYSSYSDEVICE:[BLAST] by default. If you would like them placed elsewhere, please specify the name of an alternate directory. (Default = SYSSYSDEVICE:[BLAST]):

enter the name of the directory in which you wish to install the BLAST support files or press ENTER for the default directory, SYSSYSDEVICE:[BLAST].

13. At the next prompt:

The BLASTSYM.COM file defines the BLAST symbols. It is usually called from SYLOGIN.COM and is placed in SYSMANAGER by default. If you would like it placed elsewhere, please specify the name of an alternate directory. (Default = SYSMANAGER):

enter the name of the directory in which you wish to install the BLAST symbol definitions file or press ENTER for the default directory, SYSMANAGER. You will then see the following messages:

Creating BLAST Symbol File...

Uncompressing BLAST Distribution...

14. At the prompt:

Please enter your BLAST serial number:

enter the serial number exactly as it appears on the box and/or the distribution media. Be sure to include the two letters preceding the ten-digit serial number. Then press ENTER. You will then see the following message:

Installing BLAST executables in SYSSYSTEM: and the BLAST support files in SYSSYSDEVICE:[BLAST], please wait . . .

After messages concerning the status of the installation have been displayed, you will be given instructions for updating the system login command file and resetting the alternate typeahead buffer and port buffers.

When BLAST installation has completed, add the following command to the system login command file to give access to all users:
\$ SYSSMANAGER:BLASTSYM.COM
This defines the BLAST symbols.

IMPORTANT NOTE:

The alternate typeahead buffer *MUST* be set to 512 bytes and assigned to the BLAST communications port for BLAST filetransfer operation. Set TTY_ALTYPAHD to 512 through AUTOGEN and reboot to install the changes. With the following command, set the buffers for the port(s) BLAST will use:

SET TERMINAL<Name>TYPE_AHEAD/ALTYPAHD/PERMANENT

15. You will then be prompted to continue installation:

Type <return> to continue:

If for some reason you want to abort the installation, press CTRL Y. Otherwise, press ENTER to continue installation. The following messages will appear:

%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...

Installation of BLAST V10.7 completed at 08:35

16. After displaying some informational messages, VMSINSTAL will ask you for the next product to install. At the prompt:

*Enter the products to be processed from the next distribution volume set.
* Products:*

type ENTER.

The following message will appear:

VMSINSTAL procedure done at 08:36

Now that BLAST has been installed and all appropriate files and directories created, you should put your distribution media away in a safe place and configure your system to run BLAST (see the next section, for details).

Configuring Your System to Run BLAST

After successfully installing BLAST Professional VMS, you need to configure your system to run BLAST by updating your symbol table and setting the alternate typeahead buffer to at least 512 bytes and setting the communications port buffers.

Assigning Symbol Values

BLAST uses symbol values from the symbol table to locate files needed to run BLAST. During installation, BLAST creates BLASTSYM.COM, a text file containing DCL commands that define symbols needed to run BLAST. This file can be called from the system login command file (SYLOGIN.COM) by adding the following line to SYLOGIN.COM:

```
$SYS$MANAGER:BLASTSYM.COM
```

If you want to limit access, you may include this command in your individual login command file rather than SYLOGIN.COM. Additional lines can be added to BLASTSYM.COM to define other symbols. For example, symbol definitions can be added to allow you to run the following executables: BLPASSWD.EXE, INDEX.EXE, BLSECURE.EXE, and SECURE.EXE. Note that if you move BLAST files, you should modify the symbol values in BLASTSYM.COM to reflect the new location of the files. Following is a description of the syntax for assigning symbol values as well as possible values; default values are indicated in bold brackets.

\$BANNERTIME:==*delay* 0 - 99

where *delay* is the time, in seconds, that the initial screen is displayed. The default display time for the banner is 4 seconds.

EXAMPLE:

```
$BANNERTIME:==2
```

\$BLAST:==\$*path*BLAST.EXE **[SYS\$SYSTEM:BLAST.EXE]**

where *path* is the path of the directory containing the BLAST executable, BLAST.EXE.

EXAMPLE:

```
$BLAST:==$SYS$SYSDEVICE:[USER.JOE.BLAST]BLAST.EXE
```

\$BLASTDIR:==*path*

[SYS\$SYSTEM:]

where *path* is the path of the directory that contains the BLAST support files, such as SYSTEMS.SCR, MODEMS.SCR, BLAST.TDF, and BLAST.HLP. *BLASTDIR* must exist in order for BLAST to execute!

EXAMPLE:

```
$BLASTDIR:==SYS$SYSDEVICE:[USER.JOE.BLAST]
```

\$BLPASSWD:==\$*path*BLPASSWD.EXE

where *path* is the path of the directory containing the executable BLPASSWD.EXE. The default directory for BLPASSWD.EXE is SYS\$SYSTEM.

EXAMPLE:

```
$BLPASSWD:==$SYS$SYSDEVICE:[USER.JOE.BLAST]BLPASSWD.EXE
```

\$BLSECURE:==\$*path*BLSECURE.EXE

where *path* is the path of the directory containing the executable BLSECURE.EXE. The default directory for BLSECURE.EXE is SYS\$SYSTEM.

EXAMPLE:

```
$BLSECURE:==$SYS$SYSDEVICE:[USER.JOE.BLAST]BLSECURE.EXE
```

\$BPRINTER:==*device*

where *device* is the target for printer output. The default target for printer output is SYS\$SYSPRINT.

EXAMPLE:

```
$BPRINTER:==SYS$SYSPRINT
```

\$EDITOR:==*filename*

where *filename* is the name of the editor program that will be invoked by the Edit command from the Local menu. The default editor is EDIT.

EXAMPLE:

```
$EDITOR:==EDIT/TPU
```

\$INDEX:==\$pathINDEX.EXE

where *path* is the path of the directory containing the executable INDEX.EXE. The default path for INDEX.EXE is SYS\$SYSTEM.

EXAMPLE:

```
$INDEX:==$SYS$SYSDEVICE:[USER.JOE.BLAST]INDEX.EXE
```

\$SECURE:==\$pathSECURE.EXE

where *path* is the path of the directory containing the executable SECURE.EXE. The default directory for SECURE.EXE is SYS\$SYSTEM.

EXAMPLE:

```
$SECURE:==$SYS$SYSDEVICE:[USER.JOE.BLAST]SECURE.EXE
```

\$SETUPDIR:==\$path [SYS\$SYSDEVICE:[BLAST]]

where *path* is the path of the directory in which the BLAST setup files are stored.

EXAMPLE:

```
$SETUPDIR:==$DISK1:[BLAST]
```

Setting the Alternate Typeahead Buffer and Port Buffers

For BLAST to work properly, the alternate typeahead buffer needs to be set to at least 512 bytes, and the communications port buffers used by BLAST need to be set. To do this, follow these steps:

1. Type the command:

```
run sys$system:sysgen ENTER
```

2. At the SYSGEN> prompt, type:

```
show tty_altypahd ENTER
```

The current and default settings for the typeahead buffer will be displayed.

3. To increase the typeahead buffer size to 512 bytes, type:

```
set tty_altypahd 512 ENTER
```

If you are using an LTA device, set the typeahead buffer size to 512 bytes by typing:

```
set tty_defchar2 512 ENTER
```

4. Save this setting by typing:

```
write current ENTER
```

5. Reboot the system to make the changes active.
6. To set the communications port buffers, type:

```
set terminal name/typeAhead/altypahd/permanent ENTER
```

where *name* is the communications port that will be used by BLAST. If you want to configure your system for automatic port searching, see Chapter 2 of the User Manual.

