System Support Addendum

PRODUCT NAME: DECvoice Software, Version 1.1 **SSA 29.97.01-A**

HARDWARE REQUIREMENTS

Processor Support

VAX: VAX 6000 Model 200 Series,
VAX 6000 Model 300 Series,
VAX 6000 Model 400 Series,

VAX 8200, VAX 8250, VAX 8300, VAX 8350, VAX 8500, VAX 8530, VAX 8550, VAX 8600, VAX 8650, VAX 8700, VAX 8800, VAX 8810, VAX 8820, VAX 8830, VAX 8840, VAX 8842, VAX 8974, VAX 8978

VAX-11/730, VAX-11/750, VAX-11/780, VAX-11/785

MicroVAX: MicroVAX II, Microvax 2000, MicroVAX 3100, MicroVAX 3300, MicroVAX 3400, MicroVAX 3500, MicroVAX 3600, MicroVAX 3800, MicroVAX 3900

VAXstation: VAXstation II, VAXstation 2000, VAXstation 3100 Series, VAXstation 3200, VAXstation 3500, VAXstation 3520, VAXstation 33540, VAXstation 8000

VAXserver: VAXserver 3100, VAXserver 3300, VAXserver 3400, VAXserver 3500, VAXserver 3600, VAXserver 3602, VAXserver 3800, VAXserver 3900, VAXserver 6000-210, VAXserver 6000-310, VAXserver 6000-410, VAXserver 6000-420

All VAX, MicroVAX and VAXstation processors lised above are supported subject to the following restrictions:

- All functions requiring communications with or processing by, a DTC04-AA module must be executed on a valid MicroVAX or VAXstation configuration, that is, a configuration containing one or more DTC04-AA modules. The DTC04-aa hardware is supported only in the BA23 and the BA123 series of enclosures and only when used with the KA630, KA650 or KA655 series of Q-bus processors.
- The synthesis name pronunciation routines require communications with, and processing by, a DECtalk DTC01 peripheral, DTC03 peripheral or a DECvoice DTC04-AA module.

Processors Not Supported

- For systems containing a DTC04-AA module, any system containing a processor other than a KA630, KA650 or KA655 Q-bus processor is not supported.
- VAX-11/725, MicroVAX I, VAXstation I and VAX-11/782 processors are not supported.

Processor Restrictions

- 64K bytes of available Q-bus I/O memory space for each DTC04-AA module installed in the system.
- A maximum of sixteen DTC04-AA modules can be supported on a single MicroVAX or VAXstation subject to the following restrictions:
  - The module can be mounted only in a BA23 or BA123 enclosure, or in a multiple BA23 enclosure such as the DTCAA-CA or the H9642 based dual-BA23 MicroVAX systems.
  - The number of available Q-bus quad-width slots and subject to available power and loading on the Q-bus.
  - The number of adjacent "B" size mounting slots on the I/O bulkhead. The I/O bulkhead space available on various enclosures limits the number of Telephone Line Interfaces that can be installed on the system.

The following table contains the maximum limits of TLIs and DTC04-AA modules. The actual number of TLIs and DTC04-AA modules that can be installed in a system may be further reduced by available Q-bus slots and power, or by other hardware or software installed on the system:

System Enclosure	Maximum TLIs	Maximum DTC04-AA
DTCAA-CA	8	16
H3490	3	6
H9642-S	3	6
BA123	2	4
BA23	1	2

The DTCAA-CA series enclosures, built from the H3490-E bulkhead and three BA23 enclosures, support a maximum of eight TLIs; eight TLIs provide support for up to sixteen DTC04-AA modules.

The H3490 bulkheads are used in the 630QE dual-BA23 MicroVAX systems, the H9642-S expansion enclosure and various other dual-BA23-based cabinetry. The H3490 bulkheads support a maximum of three TLIs; three TLIs provide support for up to six DTC04-AA modules.

The BA123 enclosures support a maximum of two TLIs; two TLIs provide support for up to four DTC04-AA modules.

The single-BA23 enclosures support a maximum of one TLI; one TLI provides support for up to two DTC04-AA modules.

The performance of the real-time portions of the DTC04-AA system is sensitive to processor, VAXcluster and device interrupt latency. Degradations will be noticed if DTC04 interrupts are blocked by any other software and/or hardware in the MicroVAX or VAXstation system. A dedicated MicroVAX system is recommended for optimal DECvoice performance.

The DTC04-AA module is not distributed, nor shareable, across nodes in the VAXcluster. The module must reside locally, that is, on the MicroVAX or VAXstation processor that performs the calls to the DECvoice libraries.

Other Hardware Required

If a DTC04-AA Q-bus hardware module is installed in the system, the following hardware is required:

- The base DTC04-AA DECvoice quad-width Q-bus module.
- An approved country-specific Telephone Line Interface (TLI), the CK-DTC04. (The TLI is currently only available for the United States and Canada.) Each TLI supports up to two DTC04-AA modules.
- A minimum of 150 megabytes of local disk storage. Digital recommends a KFQSA disk controller and one or more externally mounted RF71 disks for ease of storage expansion, separate disk power supply and the inherent dual-path and dual-host capabilities of the DSSI bus. A minimum of an RQDX3 disk controller and an RD54 disk is required.
- A minimum of 8 megabytes of physical memory on any system containing any DTC04-AA modules.
- A minimum of 16 megabytes of physical memory on any system containing nine or more DTC04-AA modules.

Block Space Requirements (Block Cluster Size = 1):

Disk space required for installation:	14,431 blocks (7.4 MB)
Disk space required for use (permanent):	14,431 blocks (7.4 MB)

These counts refer to the disk space required on the system disk. The sizes are approximations; actual sizes may vary depending on the user's system environment, configuration, and software options selected.

OPTIONAL HARDWARE

None

CLUSTER ENVIRONMENT

This layered product is fully supported when installed on any valid and licensed VAXcluster* configuration without restrictions. The *HARDWARE REQUIREMENTS* Sections of this product's Software Product Description and System Support Addendum detail any special hardware required by this product.

* V5.x VAXcluster configurations are fully described in the VAXcluster Software Product Description (29.78.xx) and include CI, Ethernet, and Mixed Interconnect configurations.

SOFTWARE REQUIREMENTS

VMS Operating System V5.2

VMS Tailoring

For VMS V5.x systems, a minimum of the VMS Required Saveset is required if the DECvoice software is to be used in a run-time only environment, that is, no program debugging or development is to be conducted.

To conduct program development with the DECvoice software, a minimum of both the VMS Required Saveset and Programming Support kits is required.

For more information on VMS classes and tailoring, refer to the VMS Operating System Software Product Description (SPD 25.01.xx)

OPTIONAL SOFTWARE

The microcode binaries for the DECvoice Software V1.1 Continuous Word Speech Recognition Software are included in the DECvoice Software kit. The Continuous Word Recognition Software is a separately licensed product.

The Continuous Word Recognition Software is licensed on a user/activity basis. When this product is licensed, a pool of license units are made available. The specific number of units in the pool varies based on the specific license purchased. The DECvoice Software deducts a fixed number of units (100) from the pool whenever the Continuous Word Recognizer is made active, that is, when loaded into a DECvoice DTC04-AA module. These units are returned to the pool when the Continuous Word Recognizer microcode is rendered inactive, that is, when it is unloaded or otherwise made unavailable. The license unit allocation for the continuous word recognizer is not processor tiered; it is not based on CPU capacity. Continuous word recognizer licenses are tied only to recognizer activity, not to specific DTC04-AA modules.

The isolated word recognizer and the optional Continuous Word Recognizer are mutually exclusive; they both cannot be used on the same DECvoice module at the same time. The recognizer in use on a specific DECvoice module, when both are licensed, can be switched dynamically under the control of a user program.

Certain versions of these products depend upon a specific version of the operating system. Refer to the System Support Addendum of the product in question to determine which version is necessary.

GROWTH CONSIDERATIONS

The minimum hardware/software requirements for any future version of this product may be different from the minimum requirements for the current version.

DISTRIBUTION MEDIA

Tape: 9-track 1600 BPI Magtape, TK50 Tape Cartridge

This product is also available as part of the VMS Consolidated Software Distribution on CDROM.

ORDERING INFORMATION

Software Licenses: QL-VFUA*-**
Software Media: QA-VFUA*-**
Software Documentation: QA-VFUAA-GZ
Software Product Services: QT-VFUA*-**

Continuous Word Recognizer Licenses: QL-YFCA*-**
Continuous Word Recognizer Services: QT-YFCA*-**

* Denotes variant fields. For additional information on available licenses, services and media, refer to the appropriate price book.

The above information is valid at time of release. Please contact your local Digital office for the most up-to-date information.