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Path: leland.Stanford.EDU!news
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Subject: music kit promo (FYI)
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Here's the announcement...

Announcing the CCRMA Music Kit and DSP Tools Distribution

*** Now available on CD ROM and via FTP ***

The Music Kit is an object-oriented software system for building music, sound, signal processing, and MIDI applications on the NeXT computer. It has been used in such diverse commercial applications as music sequencers, computer games, and document processors. Professors and students in academia have used the Music Kit in a host of areas, including music performance, scientific experiments, computer-aided instruction, and physical modeling. The Music Kit is the first to unify the MIDI and Music V paradigms, thus combining interaction with generality. (Music V, written by Max Mathews and others at Bell Labs three decades ago, was the first widely available "computer music compiler".)

The NeXT Music Kit was first demonstrated at the 1988 NeXT product introduction and was bundled in NeXT software releases 1.0 and 2.0. Beginning with NeXT's 3.0 release, the Music Kit is no longer part of the standard NeXT software release. Instead, it is being distributed and supported by the Center for Computer Research in Music and Acoustics (CCRMA) of Stanford University.

To launch the CCRMA Music Kit, CCRMA has hired David A. Jaffe, principal designer of the Music Kit at NeXT Computer Inc., to work closely with Prof. Julius O. Smith, designer of the Music Kit DSP software at NeXT and Associate Professor (Research) at CCRMA.

The first release of the CCRMA Music Kit is now available for NeXT computers running NeXTSTEP 3.0. It is a comprehensive package that includes on-line documentation, programming examples, utilities, applications and sample score documents. The package also comes with the DSP Array Processing Library, and Bug56, a window-oriented, symbolic debugger for the DSP5600x by Ariel Corporation.

For the first time, source code (!) is available for everything except Bug56 and the low-level sound, DSP, and MIDI drivers. This means researchers and developers may study the source or even customize the Music Kit and DSP Tools to suit their needs. Enhancements can be sent to musickit@ccrma.stanford.edu to have them considered for future CCRMA releases. Commercial NeXT software developers may freely incorporate and adapt the software to accelerate development of NeXTSTEP software products. (Free commercial use of files copyrighted by NeXT Inc. are understandably restricted to NeXTSTEP platforms.)

Among the significant enhancements since the NeXT 2.0 version is a new version of Ensemble, the composition and performance application by Michael McNabb. Ensemble can now mix multiple sound files with DSP sound synthesis, send MIDI to external synthesizers, and generate complex responses to performers' actions, all under MIDI control. Other enhancements include a new version of ScorePlayer and

improvements to the DSP and Music Kit libraries.

Please send all bug reports, comments, etc. to musickit@ccrma.stanford.edu

===== CD ROM INFO =====

The CD ROM release of the Music Kit and DSP Tools INSTALLATION PACKAGE comes free with a year membership to the Bay Area Next Users Group (BANG). To join BANG and obtain the CD ROM, send a check for US \$35 to the following address:

BANG
P.O. Box 1731
Palo Alto, CA 94302
phone: (415) 327-BANG
e-mail: info@BANG.org

The CD ROM also contains a wide variety of other NeXT software.

Note that the SOURCE PACKAGE is not available on CD ROM.

===== FTP INFO =====

1. To obtain the Music Kit and DSP Tools INSTALLATION PACKAGE via FTP:

>From a shell, type "ftp ccrma-ftp.stanford.edu". Then login with the name "anonymous" and your email address as a password. Type "cd pub", then "bin" to choose binary transfer mode. Say "get MusicKit_3.0.pkg.tar" to start the transfer. You should also "get MusicKit.README", as it contains useful information about the installation process. Once it is complete, say "bye" to exit ftp, and unpack the file by typing "tar xvf MusicKit_3.0.pkg.tar" followed by "open MusicKit_3.0.pkg" (or open the package directly from the program /NextAdmin/Installer.app/Installer).

The Installer program will let you choose a directory in which to place the installation tree. If you are on a stand-alone machine, you should be logged in (or running Installer) as root and choose "/" for the installation directory (the default). This will cause files to be placed in the directories /LocalApps, /LocalLibrary, /LocalDeveloper, and /usr/local. If you are the system administrator for a network of NeXT Computers, you probably want to choose a local directory which can be exported and create symbolic links into that directory on the networked machines. Alternatively, if you have a single server that exports /Local* and /usr/local, simply install the package there and you're done.

The size of the uninstalled package is about 9.6 mb.
The size of the installed package is about 24.8 mb.

2. FTP directions for obtaining SOURCE CODE PACKAGE:

As above, but the filename is instead "MusicKitSource_3.0.pkg.tar". The Installer program will let you choose a directory in which to place the source tree, which can be anywhere. Please read the README file to get started.

The size of the uninstalled package is about 10 mb.
The size of the installed package is about 24 mb.