

Computers and Mary Pomputer!

- Expand your music knowledge
- Extend your capabilities with MHD
- Experience conducting, directing, and more
- Experiment with new sounds
- Exchange files with other musicians
- Excite audiences with live performances

A Creative Legacy...



Chick Corea Jazz Legend Macintosh

Macintosh

The Professional's Choice

Aerosmith Rhodes	• Danny Elfm	an •	George	e Michael	•	Nick
 Al Di Meola Inch Nails 	• Dave Stewa	rt •	Gloria I	Estefan	•	Nine
 Amy Grant 	 David Bowie 	e • Graham Na	sh• Paul I	McCartney	,	
B.B. King Jones		oy •			•	Quincy
 Beastie Boys 	 David Mash 	 Herbie Han 	cock	Rollir	ng Sto	nes
 Billy Cobham 	 Donald Fage 	en •	Jan Har	mmer	•	Rush
 Branford Mars McLachlan 	alis	• Dust Brothe	ers• Keith	Emerson	•	Sarah
 Carlos Santan 	a •	Dwight Yoaka	am • k	Kenny G	•	Seal
 Celine Dion 	 Eric Clapton 	• Madonna	Shery	/l Crow		
 Chick Corea Girls 	• Faith No Mo	re •	Mariah	Carey	•	Spice
 Clint Black 	 Garbage 	 Michael Jac 	kson	Sting		
 Coolio 	 Gary Burtor 	• Michael Kar	men• 7	Thomas Do	olby	
 Counting Crow 	vs •	George Marti	n • Micha	ael McDon	ald	• U2

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- Composition and notation
- Collaboration
- Recording
- Mastering and production
- PowerPC G3 performance

Apple in Music

The Only Integrated Solution

- Mac OS 8.6 Built to rock
- QuickTime 4 Pro MIDI and digital audio
- PowerPC G3 Options from student to pro
- Software World-class applications
- Mastering and delivery CD and DVD
- Beyond music Theater lighting, video...

Mac OS 8.6

Mac 05 8.6

OS-level Support for Music and Digital Audio



- Stability
- Speed
- Intuitive
- Plug and play
- QuickTime

Apple Music Technologies QuickTime

QuickTime 4 Pro

- Integrated MIDI and audio support
- Roland Sound Canvas and GS format extensions
- Native MP3 file support
- QDesign 2.0 Music Codec
- Cross-platform authoring and playback

What Is MIDI?

- Musical Instrument Digital Interface
- Serial Protocol (31,250 bps)
- Controls:
 - Note on, note off
 - Key pressure (Aftertouch)
 - Control change
 - Program change
 - Pitch bend
 - System exclusive

Import and Play Standard MIDI Files



New Age <u>J-Cycle.mid</u> (64K)

Jazz 2nd Time.mid (20K)

Classical

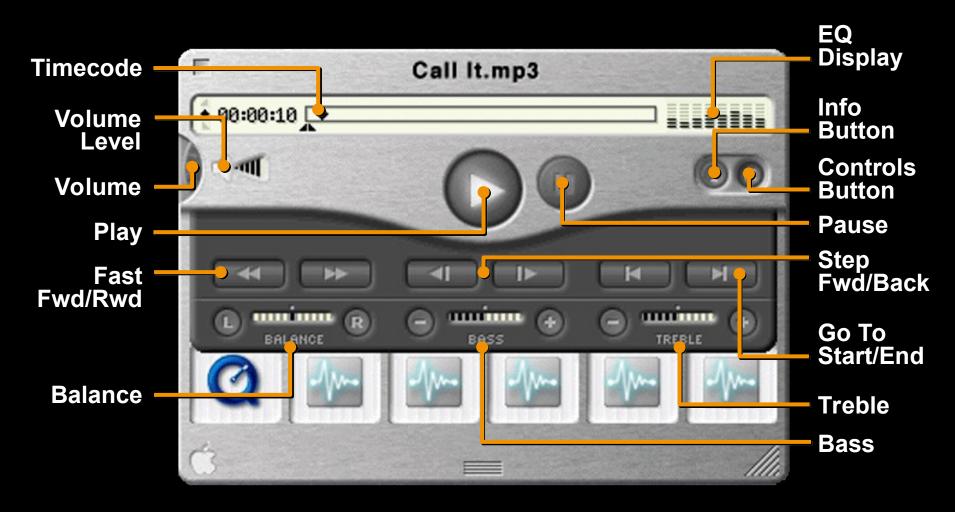
Brandenburg.mid
(120K)

Native MP3 File Support

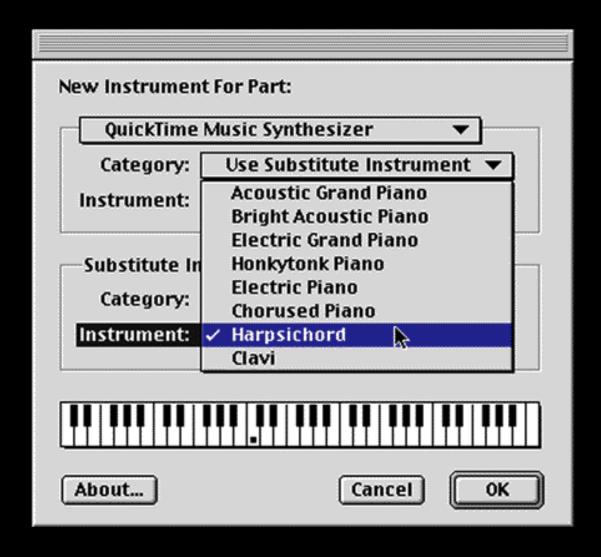
- New QuickTime Player
- Many encode choices
 - AudioCatalyst 2.0
 - Media Cleaner Pro 4.0
 - SoundJam
 - Peak 2.0



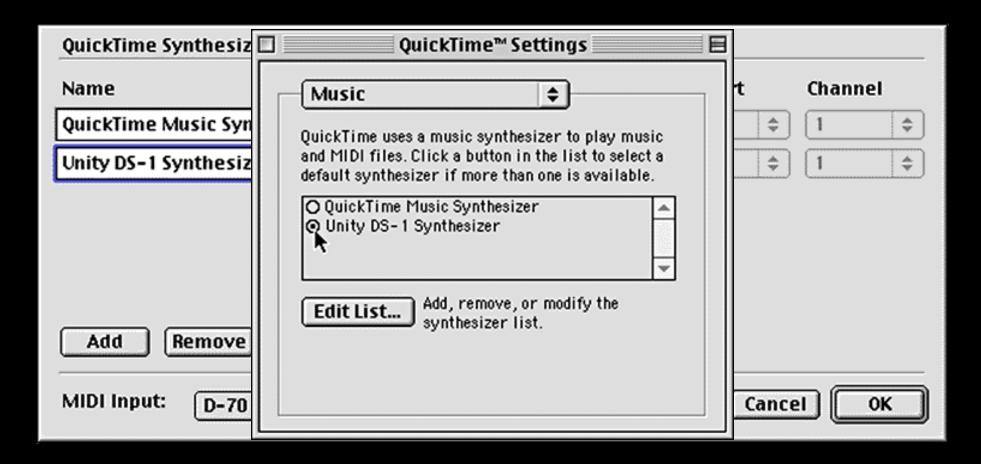
New QuickTime Player



Roland Sound Canvas and GS Extensions



Support for Other Software Instruments



Digital Audio – QDesign 2 Music Encoder



Recommended Settings.

XX.I AHA, Stereo

Optimization .

DAGNARCER SERVINGS

Digital Audio – QDesign Music Samples







Sample Rate (kHz) 44.1 Length (sec) 120 Channel 2

16-bit Data Compression none Data Size 20.1MB

Date Rate 172.2 Kbps

22.05 **120** 16-bit IMA 1.3MB

22.05 120 16-bit **QDesign Music** 466.6K **11.4 Kbps 3.9 Kbps**

Wessin' It by Sal Soghoian—used by permission

Compatible File Formats

MP3

aLaw, AU **GSM**

G.728

G.723

IMA

General MIDI

Karaoke

Sound Designer

Wave

ADPCM

AIFF

Getting Started

Hardware Setup





Keyboard Controller

PowerPC 63 Performan

iMac

The Music Creation Workstation

- PowerPC G3 processors
- Internet ready
- Built-in USB and 16-bit audio
- Accelerated MIDI with USB
- 10/100BASE-T Ethernet



PowerBook G3

Serries Serries

- PowerPC G3 processors
- Built-in USB and 16bit audio input/output
- Latest I/O technology; FireWire CardBus option
- DVD-ROM option

Power Macintosh

rofess onal Production Powerhouse

- PowerPC G3 processors
- Built-in FireWire,
 USB, and 16-bit audio
- Accelerated MIDI with USB
- DVD-ROM option



World-Class Software Titles

Extensive Titles

World-Class Software, Many Titles Mac Only

- Musical instruction
- Software-based instruments
- Composition and scoring
- Digital recording and editing
- Sound design
- Live performance

Musical Instruction

- Learn to play you favorite instrument through CD-based interactive instruction
- Accompaniment
 - Play while a virtual band accompanies you



- Bitheadz Unity DS-1 Digital Sampler
- Propellerheads ReBirth-338
 2.0
- Native Instruments Reaktor

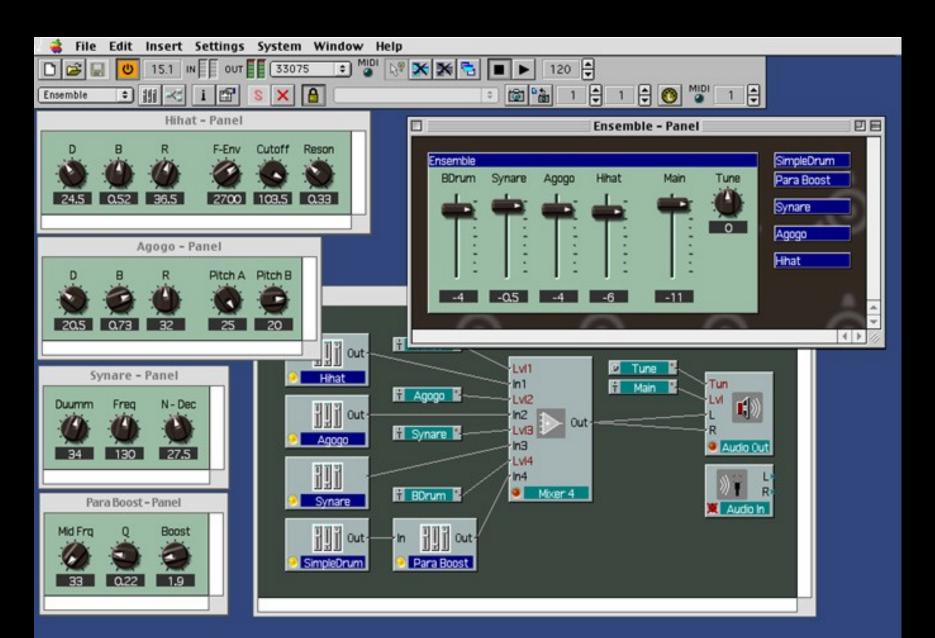
Unity DS-1 Digital Sampler



ReBirth-338 2.0



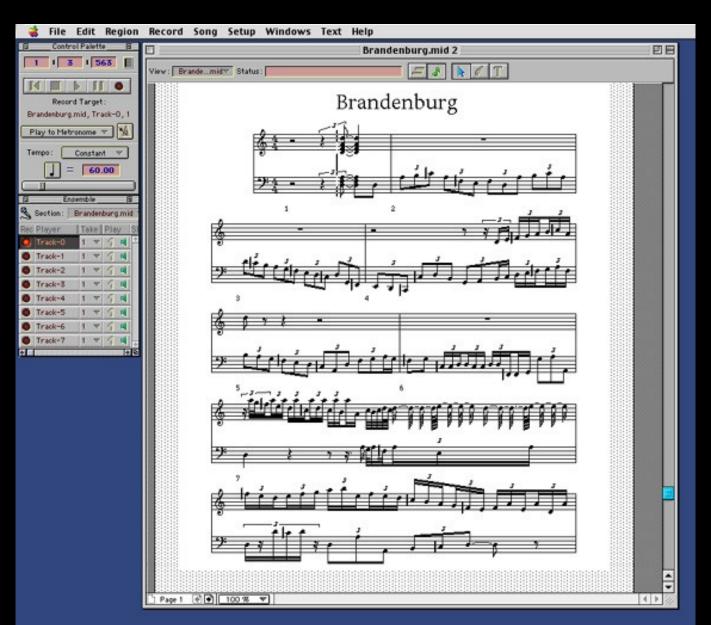
Reaktor



Composition and Scoring

- Mark of the Unicorn FreeStyle
- Coda Finale 98
- Cakewalk Overture 2

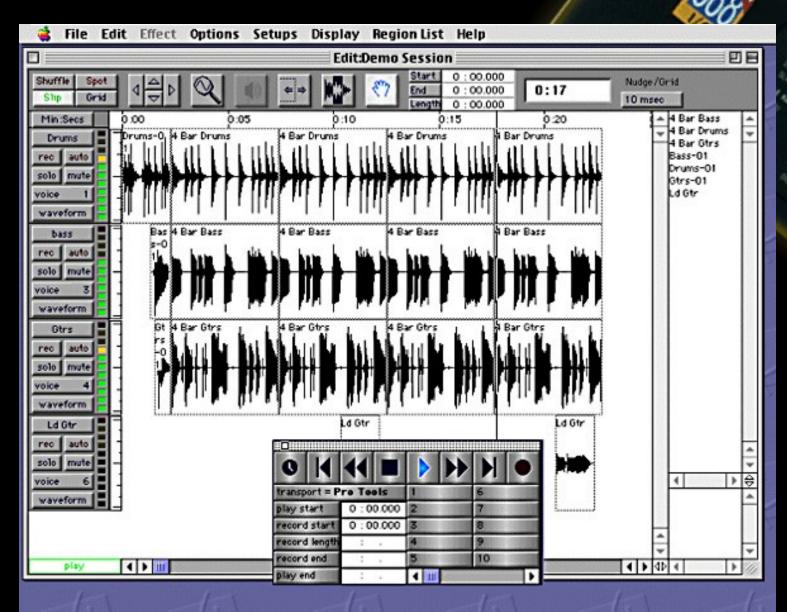
Composition and Scoring FreeStyle



Digital Recording and Editing Is

- Arboretum Harmony
- Wide array of powerful plugins

Digital Recording and Editing Digidesign Pro Tools

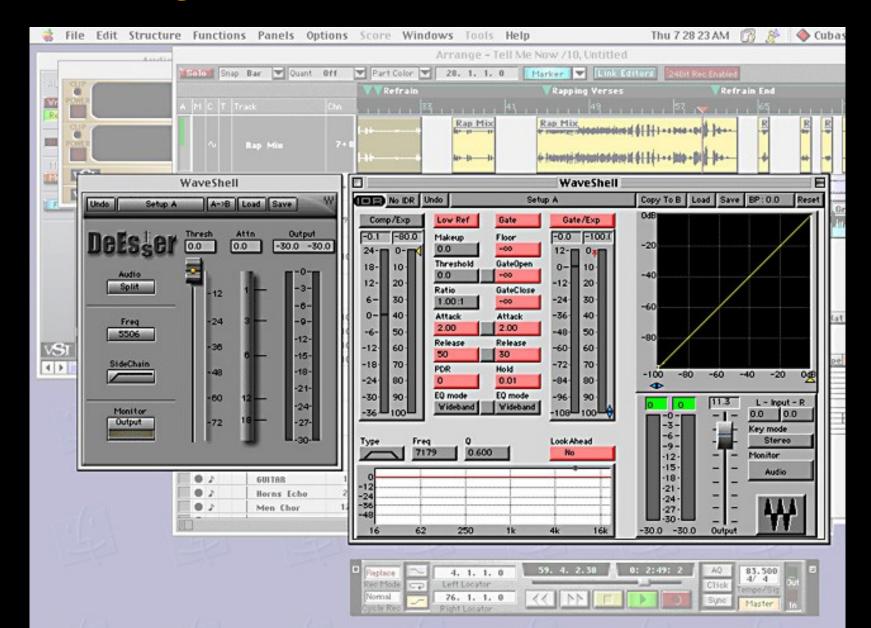


Digital Recording and Editing

Arboretum Harmony

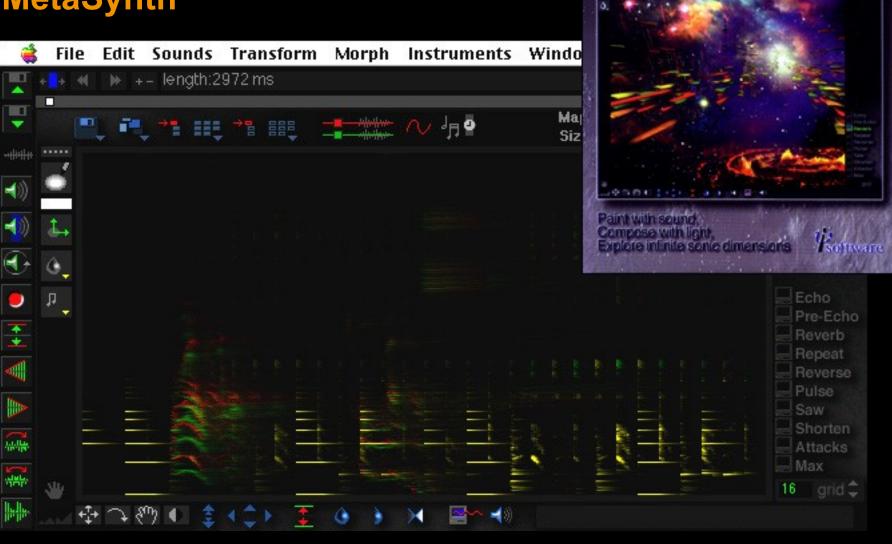


Digital Recording and Editing Waves Plug-ins



Sound Des

MetaSynth



MetaSynth

Live Performance Pro

- Steinberg Cubase VST/24
- Mark of the Unicorn Performer
- Logic Audio

Live Performance

Cubase VST/24



Mastering and Delivery

Mastering and Delinagering - Adapted Toast and Jam

- DVD
 - Sonic DVD Creator from Sonic Solutions
- QuickTime on the web
 - Audio (MP3, QDesign 2, RTP Streaming)
 - MIDI (QuickTime Instruments)

Beyond Music

Beyond Music

LanBox LC — DMX Lighting Control



Beyond Music

Video Control: X<>Pose Visual Sampler



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