



PLAY

Hollywood Orchestral Percussion Virtual Instrument

Gold Edition

Users' Manual

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Welcome

About Hollywood Orchestral Percussion

This extensive library is the fourth installment of the very popular “Hollywood” series from EastWest. Like the three libraries that preceded it to market, it was recorded, engineered, and produced with the superior level of quality for which the EastWest brand is known. Like all its predecessors, it was recorded in Studio 1 at EastWest Studios, giving the four libraries consistent sound and ambience.

Hollywood Orchestral Percussion was designed from the start to be the orchestral percussion library that works with the other libraries in the Hollywood series to provide the sound of a traditional and large studio orchestra. It focuses on the mainstream percussive instruments in such an orchestra. If you seek a wider range of percussion, EastWest has created other libraries stocked with many other kinds of drums, metals, woods, and ethnic sounds that can add less conventional sounds.



Studio 1 at EastWest Studios, during setup for the recording sessions

Producer: Doug Rogers

With over 30 years experience in the audio industry, founder and producer Doug Rogers is the recipient of over 70 industry awards, more than any other sound developer. His uncompromising approach to quality and innovative ideas have enabled EastWest to lead the sound-ware business for more than 25 years. “The Art of Digital Music” named him one of “56 Visionary Artists & Insiders” in the book of the same name.

He released the very first commercial Drum Samples CD in 1988, and followed it with the multiple award-winning “Bob Clearmountain Drums” sample collection which he co-produced. In the years that followed he practically reinvented the sound-ware industry. EastWest introduced loop sample libraries to the market in the early nineties, followed closely by the first midi driven loops collection (Dance/Industrial). He released the first library to include multiple dynamics, followed by the first sample library to stream from hard disk, an innovation that led to the detailed collections users expect today.



His recent productions are Symphonic Orchestra (awarded a Keyboard Magazine “Key Buy Award,” EQ Magazine “Exceptional Quality Award,” Computer Music Magazine “Performance Award,” Sound On Sound “Readers Award” (twice), and G.A.N.G. [Game Audio Network Guild] “Best Sound Library Award”); and Symphonic Choirs (awarded Electronic Musician “Editor’s Choice Award,” G.A.N.G. “Best Sound Library Award,” and Keyboard Magazine “Key Buy Award”). Most recently, his productions include Quantum Leap Pianos, the most detailed virtual piano collection ever produced; Fab Four, inspired by the sounds of the Beatles; The Dark Side (Fab Four and The Dark Side were both M.I.P.A. Award winners, judged by 100 music magazines); Hollywood Strings, Hollywood Brass, Hollywood Orchestral Woodwinds, Hollywood Orchestral Percussion; ProDrummer 1, co-produced with Mark “Spike” Stent; ProDrummer 2, co-produced with Joe Chiccarelli; and Ghostwriter, co-produced with Steven Wilson. Over the last 17 years he has partnered with producer/composer Nick Phoenix and set up the Quantum Leap imprint, a subsidiary of EastWest, to produce high-quality, no-compromise virtual instruments. EastWest/Quantum Leap virtual instruments are considered the best available and are in daily use by the who’s who of the industry.

Producer: Nick Phoenix

Nick began scoring film trailers in 1994. To date, he has scored or licensed music for the ad campaigns of over 1000 major motion pictures. “Godzilla,” “Ender’s Game,” “Skyfall,” “World War Z,” “Rush,” “The Hobbit,” “Avengers,” “Star Trek 2,” “Inception,” and “Harry Potter and The Deathly Hallows” are a few recent examples. Nick founded “Two Steps From Hell” with Thomas Bergersen in 2006.

www.twostepsfromhell.com

Two Steps From Hell has grown from a production music library into the top epic music artist in the world, with millions of fans and six top selling CDs on iTunes, a phenomenon never before seen in the music industry.

The journey as a composer has inspired Nick to record and program his own sounds and samples. A 17-year partnership with Doug Rogers and EastWest has yielded award winning software titles such as the Hollywood Series, Stormdrum 1, 2 and 3, Symphonic Orchestra, Symphonic Choirs, Silk, RA, Voices Of Passion, Ministry Of Rock 2, Gypsy, Quantum Leap Pianos, Goliath, and many others.



Producer: Thomas Bergersen

Thomas Bergersen holds a composition and orchestration Master's degree, and has worked in the capacity of composer, orchestrator, or music arranger on many Hollywood productions.

He founded Two Steps From Hell (www.twostepsfromhell.com) with Nick Phoenix in 2006 and has since written music for countless movie trailers. "Star Trek," "Harry Potter 6," "Tales of Despereaux," "The Dark Knight," "Valkyrie," "The Hulk," "Rendition," "Spider-Man 3," "Golden Compass," "The Assassination of Jesse James," "Pirates of the Caribbean 3," "Babel," "Hitman," "I Am Legend," "300," "No Country For Old Men," "Harry Potter 5," "The Brave One," "Wall-E," "Blood Diamond," "Speed Racer," and "Night at the Museum" are a few recent examples.



Thomas is also a trumpettist and has performed on major TV productions including NBC News. In his pursuit of the ultimate realism in samples, he has produced a great number of orchestral sample libraries for his own use. With Hollywood Strings, it was time to join forces with veteran producers Doug Rogers and Nick Phoenix, and to share this knowledge with the rest of the world. And this collaboration has continued with Hollywood Brass, Hollywood Orchestral Woodwinds, and Hollywood Orchestral Percussion.

Thomas' studio is located in Santa Monica, California. www.thomasbergersen.com

Sound Engineer: Shawn Murphy

Shawn Murphy is an Academy Award, C.A.S. (Cinema Audio Society), BAFTA, and Emmy award-winning sound engineer who has recorded and mixed the scores for more than 300 feature films including: "Indiana Jones and the Kingdom of the Crystal Skull," "Star Wars: The Phantom Menace," "Star Wars: Episode II - Attack of the Clones," "Star Wars: Episode III - Revenge of the Sith," "Star Wars: A Musical Journey," "Jurassic Park," "Jurassic Park, The Lost World," "Harry Potter and the Prisoner of Azkaban," "Titanic," "The Curious Case of Benjamin Button," "The Bourne Ultimatum," "Minority Report," "Saving Private Ryan," "Munich," "The Passion of the Christ" (score mix), "X-Men: The Last Stand," "Memoirs of a Geisha," "Ice Age 2," and "Ice Age 3."

Hollywood Strings was the first virtual instrument collection he engineered. And his work with EastWest/Quantum Leap continued with Hollywood Brass.



Credits

Producers

Doug Rogers, Nick Phoenix, Thomas Bergersen

Sound Engineer

Shawn Murphy

Engineering Assistance

Ken Sluiter, Jeremy Miller

Production Coordinator

Rhys Moody

Programming

Justin Harris, Nick Phoenix, Jason Coffman, Andrzej Warzocha

Editing

Justin Harris, Michael DiMattia, Jay Coffman, Andrzej Warzocha

Art Direction

Steven Gilmore, Thomas Merkle, Doug Rogers, Nick Phoenix

Software

Doug Rogers, Nick Phoenix, Rhys Moody, Klaus Lebkücher, Bartłomiej Bazior,
Stefan Holek, Adam Higerd, Truc Phan, Helen Evans, Elon Arbiture

Manual

John Philpitt

How to Use This and the Other Manuals

All documentation for the EastWest PLAY Advanced Sample System and its libraries is provided as a collection of Adobe Acrobat files, also called PDFs. They can be viewed on the computer screen or printed to paper.

Each time you install one of the PLAY System libraries, two manuals are copied to the file system on your computer:

- **The manual that describes the whole PLAY System.** This, the largest of the manuals, addresses how to install and use all aspects of the software that are common to all libraries.
- **The library-specific manual**, such as the one you are currently reading. This smaller document describes aspects that differ from one library to the next, such as the user interface and the list of included instruments and articulations.

Using the Adobe Acrobat Features

By opening the Bookmarks pane along the left edge of the Adobe Acrobat Reader, the user can jump directly to a topic from the section names. Note that some older versions of Acrobat Reader might not support all these features. The latest Acrobat Reader can be downloaded and installed at no cost from the Adobe web site. (As an example of a hyperlink, you can click on the last words of the previous sentence (“Adobe web site”) to be taken directly to the Adobe site.)

When reading this and other manuals on the computer screen, you can zoom in to see more detail in the images or zoom out to see more of the page at once. If an included picture of the user interface, or a diagram, seems fuzzy or illegible, then zoom in using one of several means provided in the Acrobat Reader software. Note that images are clearest and screen shots most legible at 200% and next best at 100%.

Important Note:

If you have a computer or tablet with a touch screen, you might have received pre-installed a version of Acrobat Reader designed to work with touches to the screen. In some cases, these touch-friendly versions don’t behave exactly the same way as the official Adobe product. If you are encountering problems navigating through this document, consider downloading the free Acrobat Reader from the adobe.com website. (It is OK to have both versions installed at the same time.)

The Master Navigation Document

Because the EastWest PLAY System is a collection of components, each with its own Users’ Manual, a Master Navigation Document (MND) is provided to allow users to jump quickly between these PDFs when being read on the computer screen. This MND is a one-page file with hyperlinks to the PLAY System documentation and to all the library manuals. Hyperlinks to this Master Navigation Document are found on the title page of each chapter in each document. From there, you can open any other document in the collection.

As one example, if you're reading some chapter in this documentation for the Hollywood Orchestral Percussion library, and need to open the manual for the PLAY System as well, go to any chapter title page and click on the link at the bottom of the page that says, "Click on this text to open the Master Navigation Document." It will open in a new window on the screen. In that document, click on the icon for the PLAY System and its manual will open in the same window, hiding the MND. You now have both the Hollywood Orchestral Percussion library manual and the PLAY System manual open in separate windows so you can refer to them both.

Separate Gold and Diamond Manuals

The Hollywood Orchestral Percussion virtual instrument is available in separate versions: Gold and Diamond. And each has a manual slightly different from the other, so it is important that you use the correct version of the manual. This is the manual for the Gold Edition. If you have the incorrect version of the manual, contact Technical Support at EastWest.

Online Documentation and Other Resources

For the most up to date information, visit the support pages at EastWest's web site. There you can find:

- information made available after these manuals were written
- FAQ pages that may already list answers to questions you have
- suggestions from EastWest and other users of the EastWest PLAY System
- news about upcoming releases

The address is:

<http://support.soundsonline.com>

You can also visit the EastWest online forums. There you can read comments and questions from others who use EastWest products and post your own. The many forum participants are a good source of helpful information about both the technical and musical aspects of this software.

The address of the forums is:

<http://www.soundsonline-forums.com>

If you visit the forums to receive support from EastWest (instead of going directly to the support site listed above), make sure you post your support request in the Support forum and not in the General Discussion forum.



PLAY

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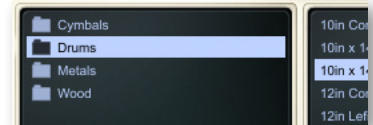
[Click on this text to open the Master Navigation Document](#)

Hollywood Orchestral Percussion, An Overview

The Percussion Section for the Hollywood Orchestral Series

This EastWest virtual instrument contains a selection of percussion heard in both traditional and modern orchestras. The included instruments fall into four families:

- Cymbals
- Drums
- Metals
- Woods



Together, these instruments provide a very large battery of percussive instruments for many different styles of orchestral writing. See the tables starting on page 26 for more detail on the individual instruments.

The instruments were recorded in a wide variety of articulations. Differences include left-hand and right-hand hits, a variety of mallets, and hits on different parts of the instrument to achieve distinctive sounds (for example, rim shots, edge shots, and center shots). And performance techniques, such as flams and rolls are well represented.

In some cases, these various articulations are presented as separate entries in PLAY's Browser view. For example, the Timpani are presented as 12 separate instruments (.ewi files), 6 with felt mallets and 6 with hard mallets. And the separate instruments include flams, crescendi, rolls, and so on. In other cases, the articulations have been assigned to separate MIDI notes within a single instrument. For example, the 13in Concert Tom includes left-hand hits, right-hand hits, and flams assigned to separate notes within the same instrument file.

These instruments can be used on their own or they can be integrated into a larger orchestral framework with other members of the EastWest Hollywood series: Hollywood Strings and Hollywood Brass and Hollywood Orchestral Woodwinds. All these members of the EastWest Hollywood series have been designed to work together to create an integrated orchestral sound:

- They were all recorded in the same studio.
- They were all recorded with the same microphones in the same positions within the recording space.
- They were all engineered by Sound Engineer Shawn Murphy.
- They were all produced by Producers Doug Rogers, Nick Phoenix, and Thomas Bergersen.
- They were all programmed using the same practices and software.

So, even though they are sold as separate products and were released over the course of five years, they form a single platform for orchestration and music realization.

Comparison of the Diamond and Gold Editions

The Gold Edition is mostly a subset of the Diamond Edition. It is intended for those with smaller or less capable computer systems, and for those looking for most of the features and power of the Diamond Edition but at a smaller price. Here are the differences:

- **Bit Depth:** the samples in the Diamond Edition are 24-bit; those in the Gold Edition are 16-bit.
- **Delivery:** the Diamond Edition is provided on a hard drive. The Gold Edition is available by download or the user can purchase the CCC Gold “Sound Data Hard Drive” (<http://www.soundsonline.com/CCC-Gold-HD>) which contains the sound data only and can then purchase product licenses online.
- **Mic Positions:** The Diamond Edition includes samples from 5 independent microphone positions that can be mixed together to achieve control over both acoustic vantage and spaciousness of the sound; the Gold Edition provides a single mic position.

The list of articulations for the two libraries are the same.

Those with a Gold Edition license can upgrade to the Diamond Edition license (and receive the extra content) by contacting EastWest. Details about upgrading are also available on the SoundsOnline.com website.

What's Included

This Hollywood Orchestral Percussion library (Gold Edition) you purchased includes all of the following:

- a complete set of sample-based instruments, enumerated later in this manual
- approximately 10 Gigabytes of 16-bit, 44.1 kHz samples
- the EastWest PLAY 4 Advanced Sample Engine (Note that PLAY 4 is required; earlier versions are not supported with this library.)
- the unique authorization code that identifies the license you bought
- manuals in Adobe Acrobat (.PDF) format for both the EastWest PLAY 4 System and the Hollywood Orchestral Percussion Virtual Instrument
- an installation program to set up the library, software, and documentation on your computer
- an Authorization Wizard for registering your license in an online database

One required item *not* usually included is an iLok security key. If you already have one from an earlier purchase of software, you can use it. Otherwise, you need to acquire one. They are available from many retailers that sell EastWest products, or online:

www.amazon.com

Hardware Requirements

See the PLAY System manual for a complete list of the Hardware and Software Requirements for installing and running any PLAY System library.

Because both the size and complexity of many of the Hollywood Orchestra instruments are greater than in some other PLAY libraries, you will likely need an even more capable system than is recommended for those other libraries:

- Intel or AMD quad-core processor, or higher, running at a minimum of 2.66 GHz
- 8 GB of RAM or more
- a 64-bit operating system; and a 64-bit host when running PLAY 4 as a plug-in

Note that this is a recommended system, and is more powerful than the minimum of what is required.

Solid State Drives

There is no doubt solid state drives (SSDs) are a revolution for storing and streaming samples. While currently more expensive than traditional hard drives, the seek and retrieval times are almost instantaneous, which means you may be able to create even larger projects and/or to use lower latencies without needing workarounds to avoid disruption of the audio output. When using multiple products from the EastWest Hollywood series, SSDs may be your only option (in some cases, “light” patches are provided for other users), and the number of mic positions that can be accessed simultaneously may also be dependent on solid state drives. Installing 2 or more smaller SSDs with a true hardware RAID 0 solution offers the best performance. For professional users, we recommend consulting computer system specialists to achieve the best performance.

EastWest has done extensive testing in which PLAY 4 running with solid state drives for the samples and instruments was able to reproduce over 700 concurrent voices without any pops, clicks, or other artifacts that can occur when the same sequence streams from a traditional hard drive.

This data indicates that it is not the PLAY 4 software that provides the bottleneck in the data flow, but rather the “seek time” required to locate the many hundreds of samples on a traditional hard drive when they need to be streamed to the CPU all at once. For those composers and orchestrators looking to build large projects using the kinds of instruments that add realism through the use of complex cross-fades, solid state drives (along with more than 8 GB of RAM) can help make that happen.

Requirements for Sample Storage

The available space on the hard drive required for an installation of Hollywood Orchestral Percussion (Gold Edition) is approximately 10 GB (Gigabytes).



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The Orchestral Percussion User Interface

Each PLAY library presents its own interface when one of its instruments is the current one, as specified in the Instruments drop-down in the upper right corner. (See below.)

Much of this interface is shared by all PLAY System libraries, and the common features are described in the PLAY System manual. The controls specific to Hollywood Orchestral Percussion, as described later in this section, are those listed on the next page. If you don't see a control described in this chapter, look at the PLAY System manual; that's the other manual installed on your hard drive during program setup.



HOLLYWOOD ORCHESTRAL PERCUSSION

Here are the controls described in this manual (and not in the PLAY 4 System manual):

- Performance (2 buttons)
- Round Robin Reset
- Stereo Double
- the Master button and Pre-Delay knob in the Reverb controls
- the graphical representation of the Envelope

Performance

There are two buttons grouped together in the Performance section.



One button turns on and off a script that can control what's called "Repetition Sim," where "Sim" is short for Simulation. The other button resets the Round Robin counters so that all instruments start with the first sample in the collection. Both buttons are described in detail below.

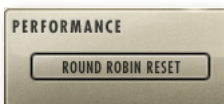
Repetition Sim Button

Repetition, in this context, refers to the rapid playing of a single pitch more than once with no different notes played between them in the same phrase. Turning on this button causes repeating notes to sound slightly different, avoiding the sense of mechanical repetition. See a more complete description of the repetition script, starting on page 19, for more on how to use this feature.

Round Robin Reset Button

A round robin articulation is one in which several different samples are recorded with all parameters, such as volume, speed of attack, and so on, being essentially constant. The PLAY Engine then knows to alternate between the two or more samples during playback. The goal is to avoid what's often called the "machine gun effect" in which playing the same sampled note repeatedly causes the unnatural sound of consecutive notes being mechanically identical.

Any articulation with "RR" in its name uses round robin technology. Those with an "x3," "x4," or the like in the name, use 3, 4, or more different samples for each note. Or in this library, check the third column in the tables of instruments: if that column contains a number other than 1, then it's a round robin instrument.



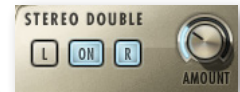
There's one potential problem with round robin technology, and one way to solve it is the Round Robin Reset button. The PLAY Engine remembers which sample should be played the next time the note sounds. If, for example, a round-robin patch contains two samples, A and B, and a piece uses that note 7 times over the whole piece, the PLAY Engine plays A B A B A B A. If the piece is played again from the beginning, the engine will play starting with B, because that's next in order. The second rendition will be subtly different. Being able to reset all round-robin articulations to the beginning of the cycle allows for consistent playback.

HOLLYWOOD ORCHESTRAL PERCUSSION

You can use this button to reset all round robin articulations on demand. Or use your choice of a MIDI note or MIDI control code to reset them one instrument at a time from a MIDI keyboard or the data stored in a sequencer project. See the description of the Settings dialog (in the main PLAY System manual) for more information about this articulation-specific approach.

Stereo Double Controls

This knob, with its three buttons, gives the user the option of using exclusively the left stereo signal or right when “Stereo” is selected from the Channel Source drop-down. For any other setting, this control has no effect.



The knob lets the user determine the spread of the signals, how far apart the ear perceives the stereo channels to be. A value of 0% brings the two channels together at the center (unless the Pan knob positions the output differently), and is the equivalent of turning off the controls with the button to the left of the knob. A value of 100% calls for the maximum spread available. Select between the left and right signal with the L and R buttons, respectively.

The Master Button and Pre-Delay Knob in the Reverb Controls

The common features of the Reverb Controls are explained in the main PLAY System manual, but the Hollywood Orchestral Percussion user interface includes two features not in all PLAY libraries:

The Master Button

When this button is pressed and the On light is illuminated, the Reverb for this instrument applies to all the other instruments in this instance of PLAY, including instruments from libraries that do not include a Master button.

If the Master button is already engaged in another instrument in the current instance of PLAY, and the Master button is pressed in a new instrument, then the settings in the user interface (UI) of the new instrument become the settings for all instruments in this PLAY instance.



The processing of high-quality reverb can be very CPU-intensive and it is often the case that you want to use the same reverb on all the instruments in an audio track. Engaging the Master Reverb button allows you to run a single instance of the reverb processor and have the effect apply to multiple instruments.

Turning on 'Master' will make all other instruments in this instance share this reverb, other send effects, and settings. This is designed to conserve DSP resources and therefore tax your CPU less overall. Note that the volume and pan of the 'Master' instrument will also affect the overall reverb return signal when used in this manner.

Close

When you engage the Master button, PLAY puts up a warning message, as shown above, to remind you that the reverb settings in this instrument will now apply to all instruments in this instance of PLAY.

The Pre-Delay Knob

Increasing this level delays the onset of the reverb so that the initial section of the sample is unaffected. This feature allows the sound of each attack to maintain its true color while the rest of the note still gains the benefit of the reverb effect.

The Graphical Representation of the Envelope



The Envelope Controls are described in the main PLAY System manual because they are common to all PLAY System libraries. Only some libraries include the graph, as shown here, so it is included in the manuals for those libraries only.

Note that the total width of the graph represents the total length of all phases of the envelope. Therefore, when you change something in one part of the graph, for example, the length of the decay, you may see the slopes of other components, the attack and the release, change as well because those phases become a larger or smaller percent of the whole; this is as expected.

The Browser View

The Browser behaves identically among all PLAY System libraries. Read the main PLAY System manual for information about how to use that view.

Repetition Sim Script

Where the other three section of the Hollywood Orchestra series include 3 customizable scripts, the The Hollywood Orchestral Percussion library includes only one: The Repetition Sim Script. This script changes the quality of the notes when a single pitch is played multiple times in quick succession. Although similar to what can be achieved with Round Robin patches, the effect can be used on any articulation, not only those programmed to include RR technology.

In order for a script to actively affect the notes in an instrument file, the script must be activated in the PLAY user interface. The image to the right shows the Repetition Sim script turned on. In addition, the appropriate MIDI Control Code must be turned On (meaning in the range 64 to 127). This script uses MIDI Control Code 69 (CC 69).



HOLLYWOOD ORCHESTRAL PERCUSSION

When playing consecutive notes of the same pitch, the use of a single sample over and over in quick succession can sound mechanically identical, which is called the “machine gun effect.” The Round Robin patches are one way to fix this problem. The Repetition script solves the same problem in another way. For any articulation, this script uses one or more of three randomly selected options to keep the sound a little different on each repetition:

- Use the sample for a nearby note (for example, a half step higher or lower) and retune it to the needed pitch.
- Start the note a tiny amount before or after the specified start time.
- Detune the sample a few cents (hundredths of a semitone) higher or lower.

This variability gives the sound a more human, less robotic, feel. After all, what human instrumentalist plays every note exactly on pitch and at exactly the notated time?

The producers have selected which of these three approaches will be used for each articulation file—and how much variability to allow—to achieve the most realistic behavior. That is, some patches randomly use all three approaches, while others may use only one or two of them.

Note that Repetition scripts do not have the equivalent of the Round Robin Reset button to ensure an identical sound every time the same track is bounced to audio. The randomness of the results is a feature. You need to decide how important exact repeatability is when selecting either a round robin patch or the Repetition script.

The Articulations Control and Keyswitches

In the center of the Player view is a control that lists the articulations available in the current window. Often this list is short, containing only the one articulation given in the instrument name. The image at the right shows the control for a Timpani keyswitch instrument.



The checkboxes at the left of the control allow you to deactivate any articulation (turn it off while leaving its samples in memory) or, separately, to unload the samples from memory. The small knobs in the third column allow you to adjust the loudness of each articulation without affecting the loudness of the others.



4. Instruments, Articulations, and Keyswitches

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Instruments, Articulations, and Keyswitches

The Hollywood Orchestral Percussion library contains a wide variety of instruments typical in an orchestral movie soundtrack—and, of course, it can be used for many other types of music, as well. It mixes well with other virtual instruments from EastWest, so feel free to add in strings, guitars, ethnic instruments, voices, whatever you can imagine. This library and the other libraries in the same EastWest “Hollywood” series are designed to work together particularly well; they include the same variety of microphone positions and other features that help them blend into a unified sound.

For the purpose of the tables in this chapter, the library can be grouped into four sets of instruments based on how the sound is generated. Here are some examples:

- Cymbals
 - › Tam Tams
 - › Cymbal crashes
 - › Cymbal rolls
- Drums
 - › Concert Toms
 - › Field Drums
 - › Snare Drums
 - › Bass Drums
 - › Timpani
- Metals
 - › Crotales
 - › Chimes and Bells
 - › Triangle
 - › Vibraphone
- Woods
 - › Castanets
 - › Celesta
 - › Marimba
 - › Wood Blocks
 - › Xylophone

All these instruments with their various articulations are enumerated in the four tables that follow. You might want to print out the pages containing these tables as a reference.

In addition, there are “Combo Kits” that collect a variety of these sounds into a single .ewi file.

The Tables of the Instruments

The sounds of each instrument are provided in the form of one or more instrument files (with extension .ewi in the Browser view), sometimes representing separate articulations. Or, within some instrument files you may find several articulations that can be selected in one of several ways:

- through the on-screen UI
- with keyswitch notes
- by moving the Mod Wheel

A Note on Dynamics in Hollywood Orchestral Percussion Instruments

As discussed in multiple places within EastWest manuals, there are several ways you can affect with MIDI parameters how loudly an instrument should play:

- MIDI Velocity
- the Mod Wheel, CC 1
- Volume, CC 7
- Expression, CC 11

In the list above, “CC” refers to MIDI Control Codes. Read the section Volume, Velocity, Expression and the Mod Wheel, starting on page 36, for more information on this topic.

Volume and Expression work on any and all instruments. Volume should be used to set a loudness level relative to other instruments. And Expression should be used to shape the continually changing dynamics, timbre, and expressiveness of each instrument. Neither Volume nor Expression change the timbre of the instruments, only the loudness.

Hollywood Orchestral Percussion instruments use either MIDI Velocity or the Mod Wheel to affect the sound of the instruments when they are played louder or softer. As a general rule, in this library:

- Unless it is specifically stated otherwise, Velocity is used.
- The Mod Wheel is used on rolls where the table of instruments below states that it uses a DXF (Dynamic Cross Fade).

Overview of the Instruments in Hollywood Orchestral Percussion

The following 5 tables, which extend over several pages, list the instrument files available for each category of instruments.

- The left-most column is the name of the instruments.
- The second column lists the lowest playable note (usually C1 or C3).
- Next is the number of playable notes available within that instrument file.
- The fourth column specifies how many distinct samples are included in the Round Robin; a value of 1 means that it is not a Round Robin instrument.
- The last column provides general information. When separate articulations are assigned to separate MIDI notes, the mapping is specified in this column.

As is stated in many places in EastWest manuals, the naming of MIDI notes, such as “C1,” can vary with different vendors. EastWest uses the convention that Middle C (MIDI note 60) is called “C3” in all of its documentation. So when you see that the lowest playable note is “C1” that name refers to the C two octaves below Middle C (two ledger lines below the bass staff).

Unless otherwise noted, only the white keys are used for generating sounds. For example, if an instrument uses 3 MIDI notes starting on C3, the playable notes are C3, D3, and E3. The notes C#3, D#3, and other black keys are skipped. The only exceptions to this rule (in this library) are the pitched instruments, such as the Xylophone or the Orchestral Chimes, where a complete chromatic scale is provided.

Some descriptions of an articulation use the abbreviation DXF, which stands for Dynamic Cross Fade.” In a DXF, the Mod Wheel (MIDI Control Code 1) affects the loudness. Push the wheel up to increase the loudness, and down to make the sound softer. That approach happens in rolls, where you may want to adjust the loudness in the middle of the note’s duration.

Where a round robin instrument includes both hits and rolls among its articulations, it is most likely that only the hits are represented by multiple samples in the round robin pattern. The rolls are unlikely to participate in the round robin feature.

Five of the pitched instruments include “Lite” versions. They are designed to use fewer computer resources, and so might be a good choice if you are encountering problems when using more instruments than your computer system can handle at once.

Tables of Instruments

These five tables provide details about the instruments you find in the five top-level folders of .ewi files in the PLAY Browser. It is not always possible to describe in text the differences between the sounds of separate articulations, so use your ear to determine which ones to use for your own requirements.

Table of Combo Kits

These two kits take a sampling of the individual instruments listed later in this manual, and combine multiple physical instruments into a single instrument file. This approach allows the user to place a whole variety of percussion instruments in a single MIDI track and select which ones to sound based on the notes played.

The layout of this first table is different than the others: Under the name of each kit, you can see the indented names of the included instruments, with each instrument’s range of articulations to the right.

HOLLYWOOD ORCHESTRAL PERCUSSION

COMBO KITS

Basic Kit 1

Timpani Felt Long	C0	18	2	C0–E1; a chromatic scale of long hits, alternating LH and RH
32" Bass Drum	F1	4	2	F1=short hit; G1=long hit; A1=roll; B1=cresc (1 sec)
40" Bass Drum	C2	4	2	C2=short hit; D2=long hit; E2=roll; F2=cresc (1 sec)
6x14 Brass Calf Head Ludwig Snare Drum	G2	6	2	G2–A2=center hit LH, RH; B2=flam; C3=r rim shot; D3=bounce; E3=roll
5x14 Brass Ludwig Snare Drum	F3	6	2	F3–G3=center hit LH, RH; A3=flam; B3=r rim shot; C4=bounce; D4=roll
12x15 Slingerland Field Drum	E4	6	2	E4–F4=center hit LH, RH; G4=flam; A4=r rim shot; B4=bounce; C5=roll
15" Old Italian Crash Cymbal	D5	2	2	D5=long hit; E5=short hit
19" Sabian Crash Cymbal	F5	2	2	F5=long hit; G5=short hit
20" Zildian Crash Cymbal	A5	2	2	A5=long hit; B5=short hit
38" Large Tam Tam	C6	3	2	C6=long hit; D6=short hit; E6=cresc
18" Zildian Sus Cymbal Cres	F6	3	2	F6–A6=crescendo sustain

Basic Kit 2

36" Ludwig Bass Drum Felt	C0	4	2	C0=short hit; D0=long hit; E0=roll; F0=cresc (1 sec)
6x14 Pearl Philharmonic Snare Drum	G0	6	2	G0–A0=center hit LH, RH; B0=flam; C1=r rim shot; D1=bounce; E1=roll
10x14 Black Swamp Field Drum	F1	6	2	F1–G1=center hit LH, RH; A1=flam; B1=r rim shot; C2=bounce; D2=roll
Black Swamp Tambourine	E2	3	2	E2–F2=hits; G2=rolls
16" Sabian Crash Cymbal	A2	2	2	A2=long crash; B2=short crash
19" Zildian A Crash Cymbal	C3	2	2	C3=long crash; D3=short crash
22" Zildian Crash Cymbal	E3	2	2	E3=long crash; F3=short crash
20" Zildian Sus Cymbal Cres	G3	3	2	G3–B3=crescendo sustain (G3=fastest to B3=slowest)
32" Medium Tam Tam	C4	3	2	C4=long; D4=short; E4= crescendo
Puilli Sticks	F4	2	2	F4–G4=hits
Shakers	A4	2	2	A4–B4=short shakes

continued

HOLLYWOOD ORCHESTRAL PERCUSSION

COMBO KITS

Castanets	C5	4	2	C5–D5=Castanet LH, RH; E5=Castanet flam; F5=Castanet roll
Anvils	G5	6	1	G5=anvil; A5=Carol Sound anvil; B5=Carol Sound anvil mute; C6=railroad track; D6–E6=railroad track mute
Triangle	F6	3	2	F6–G6=triangle hits; A6=triangle roll

Table of Cymbals

CYMBALS

Cymbal Pairs folder

12in Old Zildjian K Crash	C3	3	3	C3=long; D3=short; E3=even shorter
14in Old Zildjian K Crash	C3	3	3	C3=long; D3=short; E3=even shorter
15in Old Italian Crash	C3	3	3	C3=long; D3=short; E3=even shorter
16in Sabian Crash	C3	3	3	C3=long; D3=short; E3=even shorter
17in Istanbul Crash	C3	3	3	C3=long; D3=short; E3=even shorter
19in Sabian Crash	C3	3	3	C3=long; D3=short; E3=even shorter
19in Zildjian A Crash	C3	3	3	C3=long; D3=short; E3=even shorter
19in Zildjian Crash	C3	3	3	C3=long; D3=short; E3=even shorter
20in Constantinople Crash	C3	3	3	C3=long; D3=short; E3=even shorter
20in Zildjian Crash	C3	3	3	C3=long; D3=short; E3=even shorter
22in Zildjian K Crash	C3	3	3	C3=long; D3=short; E3=even shorter
28in Small Tam Tam	C1	5	2	C1=long; D1=short; E1= fastest crescendo; F1=medium fast crescendo; G1=slowest crescendo
32in Med Tam Tam	C1	5	2	C1=long; D1=short; E1= fastest crescendo; F1=medium fast crescendo; G1=slowest crescendo
38in Large Tam Tam	C1	21	2	C1=long; D1=short; E1–G1=crescendo (E1=fastest to G1=slowest); and some FX patches: A1–E3=bowed; F3–B3=scraped

Sus Cymbals folder

14in Paiste Sus Cymbal Cresc	C3	8	2	C3–F3=crescendo sustain; G3–B3=crescendo stopped
18in Wuhan Sus Cymbal Cresc	C3	8	2	C3–F3=crescendo sustain; G3–B3=crescendo stopped
18in Zildjian Sus Cymbal Cresc	C3	8	2	C3–F3=crescendo sustain; G3–B3=crescendo stopped

continued

HOLLYWOOD ORCHESTRAL PERCUSSION

CYMBALS

20in Zildjian w Cutouts Sus Cymbal Cresc	C3	8	2	C3–F3=crescendo sustain (C3=fastest to F3=slowest); G3–B3= crescendo stopped (G3=fastest to B3=slowest)
22in Dream Sus Cymbal Cresc	C3	8	2	C3–F3=crescendo sustain (C3=fastest to F3=slowest); G3–B3= crescendo stopped (G3=fastest to B3=slowest)
Large Sizzle Sus Cymbal Cresc	C3	8	2	C3–F3=cresc sus; G3–C4=cresc stopped

Table of Drums

DRUMS

10in x 14in Black Swamp Field Drum	C1	11	4	C1–D1=center hit LH, RH; E1–F1=edge hit LH, RH; G1=flam; A1=r rim shot; B1=bounce; C2=roll; D2=roll with DXF; E2–F2=roll cresc (2 versions)
10in x 14in Ludwig Field Drum	C1	12	4	C1–D1=center hit LH, RH; E1–F1=edge hit LH, RH; G1=flam; A1=r rim shot; B1=bounce; C2=roll; D2=roll with DXF; E2–G2=roll cresc (3 versions)
12in Lefima Tambourine	C1	7	8	C1=hits; D1=slow roll; E1=slow rolls with DXF; F1=tight rolls; G1=tight rolls with DXF; A1=cresc long; B1=cresc short
12in x 15in Slingerland Field Drum	C1	11	4	C1–D1=center hit LH, RH; E1–F1=edge hit LH, RH; G1=flam; A1=r rim shot; B1=bounce; C2=roll; D2=roll with DXF; E2–F2=roll cresc (2 versions)
16in x 16in Antique Field Drum	C1	12	4	C1–D1=center hit LH, RH; E1–F1=edge hit LH, RH; G1=flam; A1=r rim shot; B1=bounce; C2=roll; D2=roll with DXF; E2–G2=roll cresc (3 versions)
32in Gretsch Bass Drum	C1	20	4	C1=felt short; D1=felt long; E1=felt roll; F1=felt roll with DXF; G1–E2=felt cresc (2 versions at 1 sec, then 2 at 2 sec, and 2 at 3 sec). C3–E4 are the same pattern, but with hard mallet.
36in Ludwig Bass Drum	C1	20	4	C1=felt short; D1=felt long; E1=felt roll; F1=felt roll with DXF; G1–E2=felt cresc (2 versions at 1 sec, then 2 at 2 sec, and 2 at 3 sec). C3–E4 are the same pattern, but with hard mallet.
40in Ludwig Bass Drum	C1	20	4	C1=felt short; D1=felt long; E1=felt roll; F1=felt roll with DXF; G1–E2=felt cresc (2 versions at 1 sec, then 2 at 2 sec, and 2 at 3 sec). C3–E4 are the same pattern, but with hard mallet.

continued

HOLLYWOOD ORCHESTRAL PERCUSSION

DRUMS

5in x 14in Brass Ludwig Snare	C1	12	4	C1–D1=center hit LH, RH; E1–F1=edge hit LH, RH; G1=flam; A1=r rim shot; B1=bounce; C2=roll; D2=roll with DXF; E2–G2=roll cresc (3 versions)
5in x 14in Mahogany Ludwig Snare	C1	11	4	C1–D1=center hit LH, RH; E1–F1=edge hit LH, RH; G1=flam; A1=r rim shot; B1=bounce; C2=roll; D2=roll with DXF; E2–F2=roll cresc (2 versions)
5in x 14in Pearl Philharmonic Snare	C1	11	4	C1–D1=center hit LH, RH; E1–F1=edge hit LH, RH; G1=flam; A1=r rim shot; B1=bounce; C2=roll; D2=roll with DXF; E2–F2=roll cresc (2 versions)
6in x 14in Brass Calf Head Ludwig Snare	C1	11	4	C1–D1=center hit LH, RH; E1–F1=edge hit LH, RH; G1=flam; A1=r rim shot; B1=bounce; C2=roll; D2=roll with DXF; E2–F2=roll cresc (2 versions)
6in x 14in Pearl Philharmonic Snare	C1	11	4	C1–D1=center hit LH, RH; E1–F1=edge hit LH, RH; G1=flam; A1=r rim shot; B1=bounce; C2=roll; D2=roll with DXF; E2–F2=roll cresc (2 versions)
8in Concert Tom	C1	3	4	C1=LH; D1=RH; E1=flam
Black Swamp Tambourine	C1	7	8	C1=hits; D1=slow roll; E1=slow roll with DXF; F1=tight roll; G1=tight roll with DXF; A1=cresc; B1=roll then hit
Concert Toms Combo	C1	24	4	2 different floor toms: C1=LH; D1=RH; E1=flam is first floor tom, and F1=LH; G1=RH; A1=flam is another floor tom. Then 6 different concert toms in the same 3-note pattern starting at C2, F2, C3, F3, C4, F4.
Ludwig Headless Tambourine	C1	2	4	C1–D1=hits; E1=slow roll; F1=slow roll with DXF
Marching Drum Ensemble	C1	4	2	C1–F1=hits
Taos Drum with Mallet	C1	2	4	C1–D1=2 hits with different mallets
Timpani folder				
Timpani Felt Cresc	C1	66	1	3 separate 22-note chromatic scales played with a felt mallet, each scale (C1–A2, C3–A4, C5–A6) has a different speed for the crescendo
Timpani Felt Flam	C1	22	2	scale of 22 chromatic notes played as a flam with a felt mallet
Timpani Felt KS				<i>See note below this table.</i>
Timpani Felt Long	C1	44	2	scale of 22 long-held hits played with a felt mallet: C1–A2=LH; C3–A4=RH
Timpani Felt Rolls	C1	22	1	scale of 22 rolls played with felt mallets; loudness is controlled with DXF (<i>i.e.</i> , with the Mod Wheel)

continued

HOLLYWOOD ORCHESTRAL PERCUSSION

DRUMS

Timpani Felt Short	C1	44	2	scale of 22 hits played with a felt mallet and muted quickly: C1–A2=LH; C3–A4=RH
Timpani Felt Sus Pedal	C1	44	2	C1–H2=LH; C3–A4=RH with felt mallet; pedal CC64 changes between short (when off) and long (when on)
Timpani Hard Cresc	C1	66	1	3 separate 22-note chromatic scales played with a felt mallet, each scale (C1–A2, C3–A4, C5–A6) has a different speed for the crescendo
Timpani Hard Flam	C1	22	2	scale of 22 chromatic notes played as a flam with a hard mallet
Timpani Hard KS	<i>See note below this table.</i>			
Timpani Hard Long	C1	44	2	scale of 22 long-held hits played with a hard mallet: C1–A2=LH; C3–A4=RH
Timpani Hard Rolls	C1	22	1	scale of 22 rolls played with hard mallets; loudness is controlled with DXF (<i>i.e.</i> , with the Mod Wheel)
Timpani Hard Short	C1	44	2	scale of 22 hits played with a hard mallet and muted quickly: C1–A2=LH; C3–A4=RH
Timpani Hard Sus Pedal	C1	44	2	C1–H2=LH; C3–A4=RH with hard mallet; pedal CC64 changes between short (when off) and long (when on)

A Note on the 2 Keyswitches for the Timpani

Each keyswitch for the instrument provides access to 5 different articulations:

- Long Hit: C0
- Short Hit: C#0
- Flam: D0
- Roll: D#0
- Crescendo: E0

If you are unfamiliar with the way keyswitch instruments work, read about the topic in the main PLAY System manual.

Note that the information in the above table for each of the 5 articulations also applies when that articulation is selected in the keyswitch instrument. That rule applies to the number of playable notes, the number of round robin samples, and the text in the right-most column. If you plan to use only one timpani articulation at a time, then this instrument allows you to easily include all the articulations in a single MIDI channel. (And if you don't plan to use all 5 in your piece, you can unload the samples using the Articulations control in the Player view for any you won't play.)

HOLLYWOOD ORCHESTRAL PERCUSSION

Table of Metals

METALS				
Brake Drum and Anvils Hits	A-1	47	1	A-1–D0=brake drum; E0–D1= brake drum mute; G1–D2=anvil; E2–C3=anvil mute; E3–F4=Carol Sound anvil; G4–C5=Carol Sound anvil mute; F5–D6=railroad track; E6–C7=railroad track mute
Crotales Hard	C3	25	1	C3–C5=scale of 2 chromatic octaves
Crotales Soft	C3	25	1	C3–C5=scale of 2 chromatic octaves
Finger Cymbals	C1	4	4	C1–F1
Glockenspiel	G3	30	1	G3–C6=chromatic scale of 2½ octaves; release trails are include
Glockenspiel Lite	G3	30	1	Same as full Glockenspiel above, but with no release trails
Orchestral Chimes	C3	18	1	C3–F4=chromatic scale of 1½ octaves; release trails are included
Orchestral Chimes Lite	C3	18	1	Same as full Orchestral Chimes above, but with no release trails
Sleigh Bells	C1	3	4	C1=lower pitched sleigh bell; D1=higher pitched sleigh bell; E1=both played together
Spectrasound Mark Tree 1 Dbl Length	C1	21	1	each MIDI note is a different glissando across the bar chimes
Spectrasound Mark Tree 2	C1	18	1	each MIDI note is a different glissando across the bar chimes
Triangles	C1	18	2	6 different triangles, each set using C, D, and E in a different octave; C and D are each a single hit; E is a roll
Vibraphone	F2	37	2	F2–F5=chromatic scale of 3 octaves; <i>see note below this table</i>
Vibraphone Lite	F2	37	2	Same as full Vibraphone above, but with no CC64 sensitivity and no Repetition script

Note on the Vibraphone

The sound of the Vibraphone changes to reflect the way the user plays it. Hitting notes when the Sustain pedal (MIDI Control Code 64) is off plays back short notes. Engage the Sustain pedal and the notes ring longer. There is also a Repetition script running in PLAY which affects how notes sound when a note is struck twice within a short time span; because the bar is already vibrating at the time of the second strike, a somewhat different sound is generated by the second hit, as on a real Vibraphone. All these features provide for a very realistic reproduction of the Vibraphone sound.

HOLLYWOOD ORCHESTRAL PERCUSSION

Table of Woods

WOODS			
Castanets	C1	8	6 C1–D1=Castanet 1 LH, RH; E1=Castanet 1 flam; F1=Castanet 1 roll; C2–D2=Castanet 2 LH, RH; E2=Castanet 2 flam; F2=Castanet 2 roll
Celesta FX	C2	4	1 C2–F2=4 different glissando effects
Celesta Sus	C2	49	1 C2–C6=chromatic scale of 4 octaves
Celesta	C3	49	1 C3–C7=chromatic scale of 4 octaves
Claves	C1	3	4 C1=lowest pitch; D1=medium; E1=highest
Mahler Hammer	C1	5	1 C1–G1=5 different hits
Marimba Rolls	A1	52	1 A1–C6=chromatic scale of rolls; loudness is controlled with DXF (<i>i.e.</i> , with the Mod Wheel)
Marimba	A1	52	2 A1–C6=chromatic scale
Marimba Lite	A1	52	1 Same as full Marimba above, but with no Round Robin
Puilli Sticks	C1	4	4 C1–D1=lower pitched hits; E1–F1=higher pitched hits
Ratchet	C1	9	1 C1–G1=short ratchet sounds (under 1 second); C2–F2=ratchet rolls (several seconds long)
Shakers	C0	21	8 7 different shakers, each set using C, D, and E in a different octave; C and D are each a single shake; E is a roll
Slapsticks	C1	2	4 C1=lower pitched slap; D1=higher pitched slap
Temple Blocks	C1	9	4 3 different temple blocks, each set using C, D, and E in a different octave; C=hit; D=flam; E=roll
Wood Blocks Piccolo	C1	15	4 3 different high pitched wood blocks, each set using C–G in a different octave; C=hit (with RRx4); D=LH hit; E=RH hit; F=flam (with RRx4); G=roll
Wood Blocks	C1	30	4 6 different wood blocks, each set using C–G in a different octave; C=hit (with RRx4); D=LH hit; E=RH hit; F=flam (with RRx4); G=roll
Xylophone DXF	F2	44	2 F2–C6=chromatic scale, loudness is controlled with DXF (<i>i.e.</i> , with the Mod Wheel)
Xylophone Rolls	F2	44	1 F2–C6=chromatic scale of rolls; loudness is controlled with DXF (<i>i.e.</i> , with the Mod Wheel)
Xylophone Sus	F2	44	2 F2–C6=chromatic scale
Xylophone Lite	F2	44	1 Same as full Xylophone Sus above, but with no Round Robin



5. Orchestral Techniques in Hollywood Orchestral Percussion

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Orchestral Technique in Hollywood Orchestral Percussion

This chapter discusses ways to use the Hollywood Orchestra to achieve the traditional sound of instruments in a live orchestra. The information in this chapter applies equally well to all the various EastWest libraries. But note that some information, especially how to achieve legato playing, is more relevant to strings, woodwinds, and brass than to the shorter sounds of much of the percussion section.

Setting Up Templates

The simplest way to work with any large orchestral ensemble is to set up templates once you have gotten to know the sounds and how all the features of PLAY work. You might, for instance, have a comedy template that has a lot of staccato articulations, effects, and crescendos; and/or an epic template that includes a lot of legato patches. Obviously, the more computers you have and/or the more capable the computers, the bigger your templates can be.

Once you have decided what patches will go inside each template and have made sure they will all fit into your available RAM, you should load everything and save the setup for each instance of PLAY to its own .ewi file or, if you have multiple instances of PLAY loaded inside a sequencing program or VST host, it is as simple as saving the sequence or VST host file. This will remember everything inside. If you are using multiple computers, make sure you have created a track in your sequence for every program on every computer.

One last thing to consider when deciding which computer will load which sounds is the amount of work each computer will have to do. Make sure to spread the sounds that you use most onto different computers so one computer doesn't end up carrying a majority of the load.

Remember that if you're running any of the Hollywood Orchestral libraries on more than one computer concurrently, you will need an iLok security key and a license for each computer.

The next stage is crucial and highly subjective. All PLAY libraries responds to three different volume controllers: CC7 (volume), CC11 (expression), and the Mod Wheel (CC1). It is highly recommended you record a CC7 message at the beginning of every track. Spend some time to set the initial volume of every track at a level in natural balance with the rest of the ensemble. This is tricky and will never be perfect, but the more time you spend on the setup the more time you'll save later. If you will be using Hollywood

Orchestral Percussion exclusively, the balance of instruments is easier than if you're bringing in other instruments. If, for example, you're using Hollywood Strings, Hollywood Brass, and other EastWest libraries in addition to Hollywood Orchestral Percussion, then start by playing the french horns, some big string ensembles, and your noisiest percussion really loud and at the same time; that will give you a reference of what the loudest passages will be like. Together, they should be at least 3 dB below 0. Then adjust the other instruments to blend with these loudest instruments.

It's recommended you not use MIDI volume (CC7) for any other purpose than this volume setting at the start of each track. Use CC11—or the Mod Wheel when appropriate—to change volume and breathe life into your compositions. This way, CC7 acts as a limiter and keeps everything from getting out of whack. Also, at a later time you can easily change the prominence of an entire track in the mix by adjusting this single CC7 level at the start of the track.

You should save the sequence before moving on. Then go to your matrix editor (or whatever it's called in your sequencer) to set up windows that display CC7, CC11, and CC1 (Mod Wheel) information. You will be editing these last two a lot, so it's a good idea to make these windows easy to access. Label your saved templates and you're ready to go.

Opening Multiple Instances of PLAY

With the PLAY 4 software, it's possible to open more than one instrument in each instance you run in a sequencer or other host—but that's not true when running PLAY in standalone mode. But there are often compelling reasons for spreading instruments across multiple instances. (An “instance” is each open window running PLAY. If, for example, you see exactly 5 PLAY windows inside your sequencer, then you have opened 5 instances.)

The main reason for opening the PLAY software more than once is to be able to take full advantage of the multiple cores available in today's high-end computers. If, for example, your computer's CPU has 4 cores, then each of the 4 cores can be independently running separate instances.

Sequencers typically assign all the processing in any given instance of a plug-in to a single core. So, in one case, if you load all your instruments into a single instance of PLAY, the work of running all those instruments will be restricted to a single core, which is less efficient than spreading the work across all the cores. But, in another case, if you create at least as many instances of PLAY as there are cores in the CPU, the sequencer can assign the instances across all the cores, which most likely means you can open more instruments and play them back without problems.

As a general rule, if you're using more PLAY instruments than you have cores in your computer, then it's best to open at least as many instances as you have cores. Let's say you have a 4-core computer and are planning to open 10 PLAY instruments. You could open 4 instances of PLAY and spread out the patches 3, 3, 2, and 2 per instance. Or you could open 10 instances with one instrument each. Or some arrangement in between.

The exact arrangement that's best for you depends on which instruments, how consistently each is heard through the piece, the complexity of the instruments (cross-fades are often using more CPU resources at once than other patches), and other factors. If you come up with an arrangement in which each instance is using about the same number of voices as the other instances, then you're likely using your instances efficiently.

Prepping the MIDI Controllers

It is recommended that you tell PLAY what MIDI Control Codes to look for by sending some Control Code messages after loading the patches and before the first notes are played. When playing live, that can mean tweaking each of the knobs, sliders, and wheels enough to send some data to PLAY. In a sequencer, you can draw a short sloped envelope for each controller before the first notes. This advice applies to the Mod Wheel (CC 1), CC 7, CC 11, and any other Control Codes in your project.

Creating a Soundscape

Whether listening to an orchestra live on a stage or from a stereo recording, we're all used to hearing the sounds of the various instruments coming at us from different directions. In a traditional symphonic layout for an entire orchestra, for example, we expect the violins to be on our left, and the cellos and basses on our right. There are two reasons we might want to continue this practice. The first is to trick the listener's ear into perceiving a recording of a live performance. Even when everyone understands that the piece was created inside a computer, emulating a traditional sound can have its benefits. The second reason is that it's easier for the human ear to hear two similar sounds as separate when it perceives them as arriving from different locations. If the trumpets and the trombones are doubled, or even playing an octave apart, they will stand out from each other better when they seem to be in separate locations in the soundscape that surrounds us.

Panning

For most of the Hollywood Orchestral series, the left-right position of instruments is different from most other collections of orchestral samples in that the panning of the various instruments to the traditional locations on the sound stage is built in to the stereo samples. The French Horns, for example, are already louder in the left channel. Therefore, one can leave the panning level at "center" for all instruments and they will be correctly placed on the stage in the final mix. In this Percussion library, most of the sounds appear in the center of the sound stage; the percussion instruments are often at the center back of the stage in live performances. But feel free to pan them left or right to achieve whatever effect you want, including spreading a large section across the entire width of the stage to make each one more discernible from the others in the mix.

ADVANCED: The previous paragraph has one exception: the Close microphones. These samples were recorded with the stereo mics directly in front of each instrumental section. The Close mic articulations use the Pan control to move the playback of those samples to the same perceived space as the Main, Mid, and Surround samples. The image at the right shows the 4 microphone-specific Pan controls for one of the Clarinet articulations in Hollywood Orchestrals Woodwinds. (The percussion instruments in this library are all centered.) The clarinet player sits on stage to the audience's left. This image shows the way the file opens with no user changes. Note that the Main, Mid, and Surround Pan controls are in the center because those samples were recorded with the stereo mics centered at the center of the studio; no panning adjustment is necessary.



Note that the natural panning within all the samples in the whole EastWest Hollywood series has one subtle feature that reverb plug-ins do not offer: correctly timed reflections from all surfaces. To understand this concept, consider a double bass player who is 5 meters from the wall to our right and 45 meters from the wall to our left. We are seated half way between the walls. The reflection from the right wall, which will be louder in our right ear, travels 30 meters (5 plus 25); the reflection from the left wall, louder in our left ear, travels 70 meters (45 plus 25). That 40-meter difference means that the reflection arrives in our right ear approximately one-ninth of a second sooner than in our left ear, a significant difference. And the other instruments all have their characteristic left/right delay based on where they sit on the stage. It is impossible for a single digital reverb to achieve that level of realism.

Proximity Clues

Panning left or right is not the only way to separate instruments. It is also possible to move them forward and backward. This can be achieved in three ways:

1. Dynamics relative to timbre
2. Delay
3. Presence (Diamond Edition only)

1. When most musical instruments change from being played louder to softer the timbre of the sound changes. Even if you let someone else adjust the volume control on your stereo, you can still tell whether the trumpet you're hearing was played loud or soft based on the instrument's tone; most instruments have a harsher sound when played louder. So, in an orchestral mix, if the trumpets seem to be played loud, but the volume level of that instrument compared to others is softer, then the ear assumes the trumpets are farther away. Adjusting independently the timbre—with velocity parameters and/or a cross fade using the Mod Wheel—and the volume of the sound, you can move individual instruments forward or backward.

2. Because sound travels at a fixed speed of approximately 340 meters per second (1100 feet per second), the ear uses very small time delays to judge relative distance. If two oboes play staccato notes simultaneously, and one is 15 meters (50 feet) further away, the note from the more distant oboe arrives 0.044 seconds later. That's about

one twenty-third of a second, a short time but noticeable to the ear. It's very easy in a sequencer to delay a track by a specific time—either with a Delay plug-in or by shifting the notes in the sequencer's Piano Roll view—and thereby achieve this effect.

3. As discussed in the section covering the 5 mic positions (not available in the Gold Edition), the farther you are from an instrument in a concert hall the more the natural reverberation of the hall contributes to what you notice. (You still hear the echoes from the walls when you're close by; you notice them less because of how loud the instrument is. It's harder to hear the crinkle of a cough drop wrapper standing near a roaring jet engine than in a hushed concert hall, even though the wrapper makes the same sound.) This “presence” of the sound is another distance clue. Mixing in more of the Close samples for an instrument makes it seem closer to the listener.

By combining all three principles, you can achieve quite convincing front/back positioning in your orchestral mix. Giving the ear contradictory signals can confuse it, achieving either a good or bad effect, depending on your intentions.

And then, of course, there's multi-channel surround sound, but that discussion is out of scope in this section.

Volume, Velocity, Expression, and the Mod Wheel

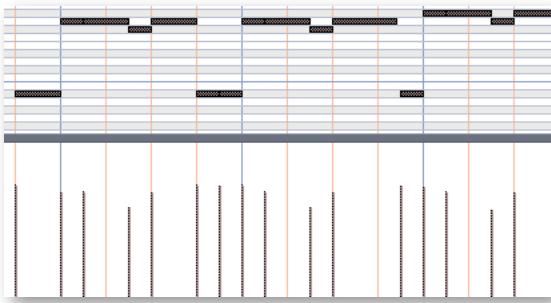
There are at least three ways to make any given sampled instrument sound louder, or at least make the real instrument seem to have been played louder. The skilled MIDI orchestrator uses all three.

Volume (CC7) is simply the increase or decrease in loudness of the audio output. Changing volume is the same as turning the volume knob on your stereo system. The horns played softly can be cranked up; a loud trumpet section can be turned way down.

Volume can be adjusted mid-note; that is, the listener can experience a crescendo or diminuendo for a held note. Even un-natural sounds can be created, such as a quick crescendo for a single hit on a drum.

One limitation of using only Volume is that in a live orchestra, the various instruments are changing their loudness independently, something you cannot do with the stereo's loudness knob.

But, as was mentioned in the section on setting up templates on page 32, it is not recommended that the MIDI volume parameter be used in this way. It is recommended that there be one Volume MIDI event on each track to set the starting loudness for the whole track.



Velocity, a term based on how strongly a keyboard player hits the keys, controls how forcefully the note is played. Adding force changes not only the loudness of the notes, but usually also changes the notes' timbre. With a piano's action, the velocity cannot affect what happens to the sound after the hammers hit and leave the strings, and velocity works the same way here. In the current implementation of MIDI, velocity is usually designated by a

number between 0 and 127. Many software sequencers display velocity as vertical bars, something like those at the bottom of the image above.

Most modern sample players, PLAY included, can select different samples for different ranges of velocity. For example, the team creating the samples recorded Middle C on the snare drum patch at *p*, *mp*, and *f*. The team then assigns the *p* samples to, say, velocities 0–74, the *mf* samples to velocities 75–109, and so on. Because each dynamic level of a snare drum has its own timbre, a note's velocity can affect not only its loudness but also its timbre, from gentle to angry.

Velocity changes are, therefore, a much better way than volume changes to achieve natural-sounding dynamics. The disadvantage of velocity is that it cannot be changed mid-note. Using loudness and velocity together gives the orchestrator more control over all aspects of dynamics.

The Mod Wheel (CC1) replaces Velocity for a few instruments in the Hollywood Orchestral Percussion library, specifically several instruments with long rolls; that is, those articulation files do not respond to the Velocity parameter of a MIDI note at all. Use the Mod Wheel to add swells and other custom dynamics to these rolls.

Once you learn to use the Mod Wheel—whether playing live or in a sequencer—you will find it to be an excellent means of controlling the continuous dynamics of the notes.

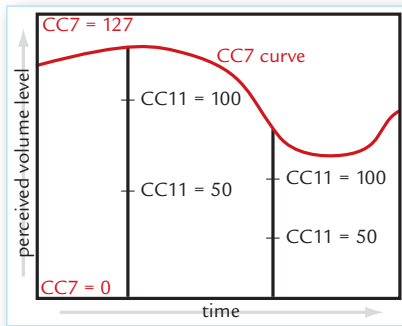
Expression is represented by another MIDI control code: CC11. The usual way to use CC11 is for continuous control of the loudness. That is, while Velocity cannot change mid-note, and it is recommended that CC7 be set only once at the beginning of the piece—or at least only at the start of major sections—CC11 can provide the kind of dynamic shaping of phrases that give music its expressive life (hence the name “Expression” for this Control Code). Use it to create swells in the middle of a note or a phrase. With CC11, you create the crescendos and fluid dynamics of expressive music.

It is possible to shape the dynamics of a line either by “playing” a CC11 controller in real time, or by drawing an envelope in a sequencer. Most MIDI keyboards and control surfaces have programmable knobs and/or sliders that can be set to send CC11 messages to a specific MIDI channel. (Sliders are generally more sensitive for real-time control.) If your sequencer supports automation, it can record the movements of the knob or slider and save them as part of the project. Such manual and real-time control over the shape

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of an instrumental line is usually more efficient than drawing in an envelope, and often achieves more convincing results.

The Mod Wheel and the Expression control achieve similar mid-note dynamic results. But do remember that only some instruments respond to the Mod Wheel. Expression works for all instruments in PLAY, and may therefore be a better choice for changing dynamics over the length of a phrase or whole piece. You should decide which dynamic controls work best for your style and become accustomed to using them consistently.

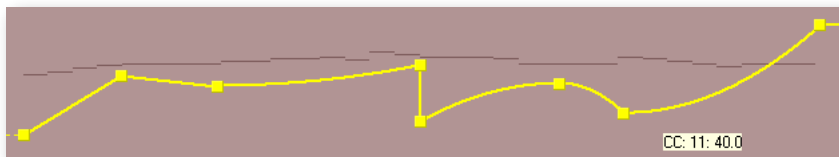


Although the volume and expression controls can be adjusted separately, the volume setting does change how expression affects perceived volume. Think of CC7 as setting an upper limit on the dynamics at any moment. Expression, like most continuously changeable values in MIDI, takes values between 0 and 127. CC7 specifies how loud a sound to generate for the maximum expression, 127. The diagram seen here shows that when volume decreases the fixed changes in expression represent smaller changes in perceived loudness. Changing from an expression level of 50 up to 100 represents a smaller change

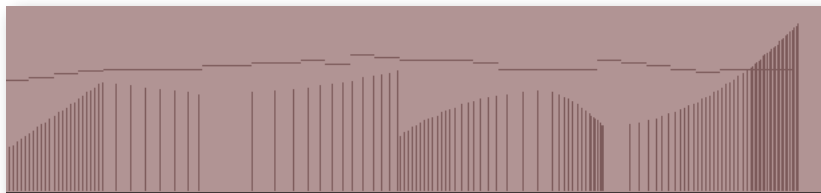
in loudness when the volume control (CC7) is reduced.

MIDI Envelopes and Control Data

Most modern sequencers let you draw an envelope for MIDI control codes. The diagram below with the yellow curve is an example of an envelope for CC11. Notice how the values are constantly changing, the same way a marimba player adds musicality and interest to a phrase by changing the strength of the hits moment to moment. (The dark horizontal lines near the top are the notes.)



When saved as MIDI data, this same envelope appears as a finite set of commands, as in the next image. In a sequencer track, these often appear as vertical lines, each line being a command to change the value—in this case to change CC11.



The other way—and many say it's the better way—to send CC11 events to the sample player is with a MIDI controller, either a keyboard or a control surface. As long as you or your group has an extra hand—or foot, if you use a pedal—you can enter these control codes while playing the notes into the sequencer. This allows you to hear the interchange

among the notes, their velocities (how hard you're hitting the keys), and the expression being added with CC11.

This process can also be done in two passes—notes first, then control data—if your setup allows you to record automation data to a track that already contains other MIDI data.

Everything written about CC11 in this section also applies to CC1 (Mod Wheel) and all other MIDI control codes. Learning to shape musical lines the same way an instrumentalist does will give your work a more natural musicality. By combining velocity control, expression, Mod Wheel, and volume, you change digital samples into real, living music.

Using Cross-Fades

The EastWest Hollywood libraries make extensive use of cross-fading, more than any EastWest library that was created before this series.

The basic idea of a cross-fade is that 2 or more samples of the same instrument—but that differ in some aspect, such as loudness, timbre, and/or vibrato—are played back simultaneously. And the mix of how much of each sample makes it into the audio output is controlled by Control Code 1 (the Mod Wheel).

For example, when the Mod Wheel is at the bottom of its range, only the *p* sample is audible, and as you push the Mod Wheel up the sound of the *p* is reduced while the sound of the *mp* sample is increased. Eventually, the *p* drops to inaudibility while the *f* samples begin to be heard.

Part of the reason for using more cross-fades is that they provide a more continuous and gradual change from one sound to another. Also, they modify timbre along with loudness, even mid-note, just like an acoustic instrument. And a third reason for using more cross-fades in this library is that recent improvements in hardware and software make this much more realistic approach possible.

In Hollywood Orchestral Percussion, look for cross fades in articulations that can be held for a long time, such as the Rolls.

The only real reason not to use cross-fade instruments as often as they'd be useful in your projects is that they use significantly more of your computer's resources.

Achieving a Legato Sound

There are two different technologies available in Hollywood Orchestra for achieving a legato sound:

- the instruments in any of the Legato folders
- the Legato and Portamento scripts

The Legato instruments in Hollywood Orchestral Strings, Brass, and Woodwinds include recordings of live musicians playing true legato transitions of up to an octave, both upward and downward. The PLAY engine combines these seamlessly with other notes to

create very convincing legato passages. These legato transitions are heard not only in instruments you might use for flowing legato phrases, but also in the playable runs that are intended for very fast passage work. But Legato playing is not usually a feature of percussion instruments. This section is included here for those users who own licenses to other sections of the orchestra.

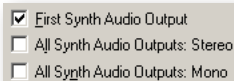
Use the true legato instruments when you want a convincing legato sound in your phrases and you don't need some other articulation to predominate.

The Legato and Portamento scripts can simulate legato transitions with scripts. Therefore, they are useful when you want a touch of legato sound between notes for some other articulation, such as between consecutive trills or marcato notes.

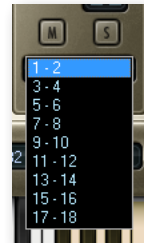
See more about these scripts where Performance scripts are described, on page 18.

Directing the Audio Output

The output from PLAY is one or more stereo audio signals. The image at the right shows 9 stereo pairs of outputs in the drop-down list from the Master Output control. Each instance of PLAY has its own outputs separate from those of every other instance.



If you are using PLAY as a plug-in in a host, you can usually specify whether you want the output audio to be captured in a single track or maintained as separate tracks. The image at the



left shows how one sequencer (Sonar) gives you a choice. The first checkbox creates a single track to hold all the audio output (with the assumption it will be the first stereo pair: "1-2"). The second checkbox creates 9 audio tracks, one for each of the stereo pairs in the drop-down list shown at the right. The third creates 18 mono tracks, in case you want to keep the left and right tracks separate. See the documentation for your sequencer to learn how that selection is made in the host software you use.

If you've selected to set up a single track to hold all the audio output from one instance of PLAY, and you open multiple instruments in this instance, then all the instruments will be mixed in the PLAY audio engine and written to the track as a single stereo signal.

If, instead, you've selected to set up multiple tracks, then you can select the track for each individual instrument and possibly each individual microphone position. Outputs that share the same channel are mixed in the PLAY audio engine and written out as a single pair of tracks. Outputs on different channels are written independently to different sequencer tracks, and available to be mixed within the sequencer at a later time.

ADVANCED: Note that the sequencer may be able to generate a monophonic track from the stereo output, but that will happen in the sequencer; PLAY always outputs a stereo signal. See the sequencer's documentation if you want to generate a monophonic track.

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