Release Notes



Version: 6.6.0 Release

including all development since version 6.5.0 Release

Geometry

Improvements

COM-637 Implemented Ability to remove points from hkFindClosestPositionUtil

6.6.0 Beta

hkFindClosestPositionUtil::removePoint was added.

Graphics

Bugs

COM-716 Fixed

Can't use display immediate modes with shapes that don't have getWireframeGeometry implemented (spheres, capsules)

6.6.0 Release

displayGeometry uses the shape's getWireframeGeometry function, however, some shapes (ie spheres and capsules) don't have this function implemented. Additionally, the geometries passed in might actually have triangle/index information passed in, but these are never drawn.

You can now use HK_DISPLAY_GEOMETRY or HK_DISPLAY_GEOMETRY_WITH_TRANSFORM with objects that don't have getWireframeGeometry implemented by calling buildGeometry on the display object to generate triangles and indices before using the display macros.

hkBase

Bugs



COM-424 Fixed Havok fails to load files from the PLAYSTATION(R)3 HDD Cache

6.6.0 Beta

The paths are not modified if they begin with SYS_APP_HOME, SYS_HOST_ROOT or SYS_DEV_*.

COM-751 Fixed

hkPointerMapBase::getSizeInBytesFor() does not match the real size of map for 4 or less number of elements.

6.6.0 Release

Fixed hkPointerMapBase initial capacity value in constructors, so the size of the map now matches the value returned from hkPointerMapBase::getSizeInBytesFor() for 4 or less number of elements.

New Features

COM-669 Implemented Simple Aabb tree added.

6.6.0 Beta

A simple hkAabbTree was added to support volume queries in tools and demos

COM-687 Implemented Utility functions for finding the "best" element in an array

6.6.0 Beta

findMinimumIndex, findMaximumIndex, findMinimumIndexAndValue, and findMaximumIndexAndValue were added to hkAlgorithm. See Common/Base/Algorithm/FindIndex/hkFindIndex.h.

Improvements

COM-474 Implemented Symbol collision for SetThreadName

6.6.0 Beta

The function has been removed.

Add asserts

COM-658 Implemented hkArray constructor should check that size is non-negative.

6.6.0 Beta

hkArray constructor now asserts if the size is negative.

Memory



Improvements

COM-215 Implemented Fix spelling of

6.6.0 Beta

Source\Common\Base\Memory\PlattformUtils

Renamed to PlatformUtils

Documentation Changes

COM-749 Implemented Comments on alignment restrictions in hkMemory are incorrect.

6.6.0 Release

The comments on hkMemory now correctly state that all allocations must be 16-byte aligned.

Serialization

Bugs			
COM-630	Fixed	Tagfile endian swapping is broken	6.6.0 Beta
		The endian swap of floating point data was incorrectly handled	. Fixed.
COM-440	Fixed	hkCompat_hk330r1_hk400b1.cpp includes hkRootLevelContainer.h	6.6.0 Beta
		Fixed versioning the hkRootLevelContainer and hkRootLevelContainerNamedVariant classes from 330r1 to 40	0b1.
COM-600	Fixed	Patches version verify does not report class parent changes only.	6.6.0 Beta
		Fixed hkVersionCheckingUtils::verifyClassPatches() to report changes only.	class parent
COM-608	Fixed	hkBinaryPackfileReader::getClassNameRegistry() not always return registry with up to date hkClass.	6.6.0 Beta
		Fixed hkBinaryPackfileReader::getClassNameRegistry() to retudate class registry.	urn up to



COM-649	Fixed	Patch for base class may not apply to all objects in hierarchy.	6.6.0 Beta
		Fixed applying base class patch to all objects of classes in the	hierarchy.
COM-612	Fixed	hkPackfileObjectUpdate may not track locations of a pointer correctly.	6.6.0 Beta
		Fixed hkPackfileObjectUpdate tracking location of pointers.	
COM-619	Fixed	AssetCC1 may fail to convert packfiles with non-virtual objects.	6.6.0 Beta
		Fixed AssetCC1 converting packfiles with non-virtual objects.	
COM-645	Fixed	Large tagfiles may fail to load	6.6.0 Beta
		Loading failed If there were more than 65k objects a given type refcount overflow in hkDataClassImpl.	
New Fea	tures		
COM-660	Implemented	Add c-string reflection type that automatically handles memory allocations/deallocation.	6.6.0 Beta
		Added c-string reflection type that automatically handles memorallocations/deallocation.	ory
COM-588	Implemented	Add built-in TYPE_HALF to replace reflected hkHalf.	6.6.0 Beta
		Added support for TYPE_HALF to substitute the pair of reflected hkHalf and TYPE_STRUCT.	ed class
Interface	Change		
Improver	nents		
		Loading a packfile object by base class name	6.6.0 Beta
		Base class name can be used to get access to top level virtual loaded packfile/tagfile.	



COM-175 Implemented Make hkLoader functions virtual.

6.6.0 Beta

The hkLoader::load() functions are virtual now.

Interface Change

COM-617 Implemented Switch hkLoader to use hkSerializeUtil

6.6.0 Beta

Behavior Change

Added support for loading tagfiles using hkLoader. hkVersionRegistry is not used by hkLoader and arguments of this type have been removed from the hkLoader::load() functions.

Interface Change

Timers

New Features

COM-591 Implemented **Object-Name-Based Timers**

6.6.0 Beta

A new timer macro, HK_TIMER_BEGIN_OBJECT_NAME (char*) is now available for timers. It allows the use of runtime string for timers. Notice that it requires this string to be "alive" for the duration of the capture (it doesn't copy it).

Visual Debugger

COM-702 Fixed VDB client can crash when loading a corrupt HKM

6.6.0 Beta

file

Changes in the error handler caused error events to crash the client rather than failing gracefully. This has been fixed.

COM-655 Fixed

Visual Debugger can show incorrect shapes when bodies are being added and removed from world

6.6.0 Beta

This would happen when a body's collidable used the same memory address as a previous collidable. In this case the VDB client would update the wrong display object. This has been fixed.

Improvements



COM-688 Implemented Visual Debugger uses tagfiles to export scene geometry

6.6.0 Beta

When exportinging selected geometry the Visual Debugger now dumps raw geometry in tag file format.

