Release Notes



Version: 6.5.0 Release

including all development since version 6.1.0 Release

Animation Demos

New Features

HKA-1145 Implemented Create Utilty and Demo for Uniformly Scaling Ragdoll Size

6.5.0 Release

The demo Animation/Api/Ragdoll/Ragdoll/Scaling has been added. This demo illustrates scaling a character's ragdoll, animation and skin.

Demos

HKA-1057 Implemented Demo: Dismemberment e.g. tearing, chopping, cutting, pulling limbs off characters.

6.5.0 Beta 1

The Animation/Api/Ragdoll/Dismemberment demo has been added. This demo illustrates limbs and body parts dropping off of a fully skinned and animated character. The underlying physical ragdoll representation is updated for both the character and removed limb with each removal.

Animation Runtime

Bugs

HKA-1155 Fixed S

Spline compressed float tracks fail to decompress properly on SPU in long animations

Spline compressed float tracks now decompress properly on SPU for animations of arbitrary length.

HKA-1123 Fixed

hkaLookAtlkSolver can generate NaNs

6.5.0 Beta 1

6.5.0 Release

The hkaLookAtlkSolver no longer generates NaN solutions when the target is very close to the head.



HKA-1127 Fixed

The interpolation between m footPlantedGain and m footRaisedGain is not as documented.

6.5.0 Beta 1

The interpolation between m footPlantedGain and m footRaisedGain is now computed as described in the documentation. This does not require a usage change for typical input values.

New Features

HKA-1145 Implemented Create Utilty and Demo for Uniformly Scaling Ragdoll Size

6.5.0 Release

The demo Animation/Api/Ragdoll/RagdollScaling has been added. This demo illustrates scaling a character's ragdoll, animation and skin.

Improvements

HKA-1122 Implemented look at needs separate angular limits for side to side vs up down look angles

6.5.0 Beta 1

The hkaLookAtlKSolver now allows the user to specify individual left, right, up and down angular limits.

Compression

Improvements

HKA-1134 Implemented hkaWavelet needs warning or assert to protect against animations of less than 8 frames in the SDK.

6.5.0 Beta 1

An assert has been added to the SDK for the minimum number of frames to be compressed by Wavelet, Delta and Spline compression.

Exporter

Improvements

HKA-1133 Implemented Filter Manager should allow for both absolute and relative paths everywhere

6.5.0 Beta 1

The Havok Content Tools documentation now clearly describes how to use relative or absolute paths when exporting.

Filters

Bugs



HKA-1146 Fixed

Havok Content Tools filter > Create Mapping > Define Mappings... > Auto Name Can Produce Odd Results

6.5.0 Release

The Auto Name feature of the Create Mapping feature has been made more intelligent. It now recognizes common conventions containing the letters R/L and the words Left/Right. Auto Pos though remains the preferred bone mapping feature.

HKA-1137 Fixed

Spline compression filter fails when the binding's m trackToBoneIndices member is null

6.5.0 Beta 1

The spline compression filter no longer fails to compress custom assets with null trackToBoneIndices.

Improvements

HKA-1125 Implemented Using a specified joint order when exporting multiple identical characters

6.5.0 Beta 1

Users may now specify substrings of bone names in a rig file. This allows multiple characters sharing an identical rig structure to be exported using the same rig file, as long as the bone names differ only by a prefix or suffix.

Inverse Kinematics

Documentation Changes

HKA-1154 Implemented Inconsistent comments for first joint of hkaThreeJointsIkSolver.

6.5.0 Release

The documentation description of the first bone of the hkaThreeJointsIkSolver has been corrected.

