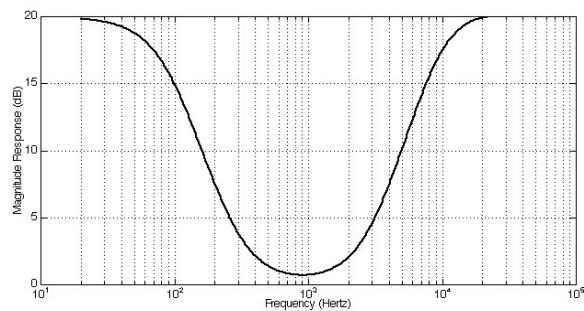
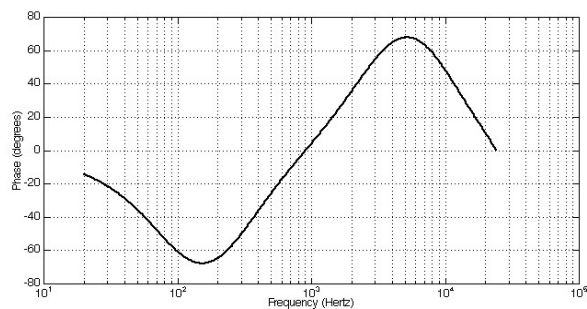


## *Altiverb V4 manual addendum*

Apart from numerous small enhancements, Altiverb version 4 now offers your 3 most frequently requested features: Better performance (up to 80 % reduction of CPU load), tone control, and automatable snapshots.



### **Baxandall EQ**



The number 2 most frequently requested feature is tone control that affects only the reverb, not the dry signal.

It should freshen up or take out just a little off the low end of the reverb while leaving the main character of a room intact. It should work well on broadband audio (i.e. on multiple instruments simultaneously) and should be subtle in its adjustments, never making a room sound unnatural. Finally and importantly it should never turn phase more than 90 degrees. This is to prevent (audible) cancelation of certain frequencies, when dry is mixed with wet signal.

We have reviewed several options available for mastering type applications, and decided upon the classic 1950's Baxandall eq, used and applauded by Bob Katz, George Massenburg and the likes.

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## Snapshots & snapshot automation

The number 3 most frequently requested feature: Using automation to switch Impulse Responses (acoustic samples) while a project is playing. Most notably in audio post production this is a must (and it is not offered in any other convolution reverb)

We took the concept a step further and decided upon snapshot automation. You can make a complete setting, including Impulse Responses, EQ, reverb length wet dry mix etc., and store a snapshot of it. The snapshot itself is an automatable parameter. This means you can either simply record snapshot switches in your sequencer or ProTools, or you can insert snapshot recalls by graphically editing automation data.

The contents of the snapshots are saved with your song. A gray numbered slot is empty. A dark blue numbered slot is occupied by a snapshot. A bright blue numbered slot is currently chosen.

- *Saving a snapshot:* Click the camera icon once. The available numbered slots will start to blink. choose one by clicking it. The snapshot is saved, the occupied slot will now be dark blue.
- *Recalling a snapshot:* Click the numbered slot of the snapshot you wish to recall.
- *Trashing a snapshot:* Click the garbage can icon once. The occupied numbered slots will start to blink. Choose one by clicking it. The snapshot is trashed.
- *Automating snapshot recalls:* 'Snapshot' is available as a parameter in the automatable parameters list of your sequencer, so you can graphically edit the snapshot recalls. Alternatively you can manually recall a snapshot while recording automation data. If you use The Audio Unit version of Altiverb you can store and recall snapshots, but you can not switch them via automation.

## Performance

Your number 1 gripe with convolution reverb, was that it required too much of your computer's processor. You were not able to insert as many Altiverbs as you'd like, or you couldn't set the hardware buffer sizes low enough.

*Same Reverb at half the cpu load* - As for ProTools (and for live situations in Logic, Cubase, Nuendo and Digital Performer): Altiverbs CPU-load on an Apple G5 is approximately half of what it was in version 3, without extra latency or any loss of quality. Just plain full convolution at half the price. In a 48 kHz Pro Tools session on a 2 GHz G5, you can insert 8 Altiverbs with a full stereo to stereo, 6 second long concert hall reverb. The cpu load reduction is even more dramatic when you use lower buffer sizes. As a result Altiverb is very usable at high sample rates and in 4 channel surround modes.

On an apple G4 the new Altiverb is typically between 20% and 40% faster than it used to be.

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