

About load measurement data of MA-3 sound middleware

As test data for the load observation of MA-3 sound middleware, total 80 files with compression / no-compression in SMAF/MA-3 form are appended.

Folder name	File name	Contents
mmf_com	0100_c.mmf ~ 4000_c.mmf	SMAF/MA-3 with compression
mmf_nocom	0100_nc.mmf ~ 4000_nc.mmf	SMAF/MA-3 with no-compression

Each test data is SMAF/MA-3 created based on the mean density (byte/second) on MIDI. MIDI line is 3125 bytes/second. On the other hand, these test data are every 100 bytes/second from 100 bytes/second to 4000 bytes/second. The number in each file name shows the mean density of the data.

Incidentally, the mean density of the SMAF/MA-3 melody data created by our tool now is about 300 bytes/second.

The observation points are the following two things.

1. The limit of the sequence data addition to FIFO

If the sequence data addition to FIFO of MA-3 is not in time for playback, sound may be held up unintentionally. In order to investigate the limit of sequence data addition, please let us know the name of test file (mean density) from which FIFO becomes empty during playback.

You can check whether FIFO has become empty by using "Acquisition of sequencer processing flag" of API MaSound_DeviceControl (12) in MA-3 sound middleware after playback.

2. The limit of the allowed load at your mobile phone

Even if sound is not held up unintentionally during playback without FIFO empty, processing will be occupied when the data addition processing to MA-3 FIFO occurs frequently. Please let us know the name of test file (mean density) used as the allowed load limit at your mobile phone.