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MPEG Stream Build Precautions

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MPEG Stream Build Precautions

The following are precautions to be taken when building an MPEG stream.

Precautions:

When a disc builder is used to build an MPEG stream file, dummy data (empty sectors) is filled in the file equivalent in size to the difference between the sector rate and bit rate. This creates the following problems:

- (a) The resulting file size is larger than necessary.
- (b) Pre-reads to the CD buffer become ineffective.

Select the smallest sector rate permitted by the range given below to delete empty sectors. In other words, the sector rate should be the smallest possible value, but larger than the total bit rate.

sector rate \geq sum of all bit rates

Please refer to section 2.6, *The Relationship between Sector Rates and Bit Rates* on page 16 of the *Virtual CD System Supplementary Manual* (ST-129-R2-SP1-061995) for information on how to calculate the sector rate.

Furthermore, the *Virtual CD System Supplementary Manual* only gives an equation that yields values in bit units (CD rate). Use the following equation to determine the sector rate value.

sector rate $\geq [BR(NV)/2296+BR(NA)/2279+BR(F1)/2048+BR(F2)/2324]/8$

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