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paraphrased text here###ENDWriteArticleTo prepare the stream for RTMP output, a few key parameters must be set. The format of the video data is specified using 'avcodec_context->format = AV_PIX_FMT_NV12;', which sets the video pixel format to NV12. The width and height of the video are also defined with 'avcodec_context->width' and 'avcodec_context->height'. For creating an output stream, 'avformat_new_stream' is used with the specified parameters. If this fails, the program exits with an error message. Next, the frame rate is set using 'AVRational frame_rate = { frame_rate, 1 };', which determines the average and real-time frame rates for the stream. The time base is also set to '{ 1, 1000 }', representing a one-second interval divided into 1000 parts. The codec parameters are allocated with 'rtmp_stream->codecpars = avcodec_parameters_alloc;'. If this fails, the program exits with an error message. When copying the codec parameters from the context to the stream, any errors prevent further processing and lead to the program's exit. Finally, when opening the output file using 'avio_open', the file must be in a valid format to support streaming. The file is then initialized for writing with 'avformat_write_header'. In the 'Camera3::preparePacket' function, packets are prepared for transmission by extracting data from the queue and allocating space for the packet. Each frame's packet index is extracted, and its size is determined. The packet's data is copied into the allocated memory, and flags are set based on the frame type (I or P). The timestamp is then set to the packet index with 'pushPacket->pts = packetIndex;'. Finally, the packet is rescaled using 'av_packet_rescale_ts' for output. std::shared_ptr sp = std::make_shared(pushPacket); auto sp = sp; sp = push_packet_queue.push(sp); std::cout

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