

```

1 void read_handler(const boost::system::error_code& ec, std::size_t bytes_read)
2 {
3     size_t offset = 0;
4     beast::flat_buffer::const_buffers_type bufs = buffer_.data();
5     //net::const_buffer bufs = buffer_.data();
6
7     std::string data(boost::asio::buffers_begin(bufs), boost::asio::buffers_end(bufs
8     ));
9
10    const __int16* sp2 = boost::asio::buffer_cast<const __int16*>(buffer_.data());
11    // const __int16* sp2 = boost::asio::buffer_cast<const __int16*>(bufs);
12    if (!ec)
13    {
14        int nSamples = 0;
15        int nBins = 0;
16        int scale = 1;
17        int bytes_used = 0;
18        while (bytes_used < bytes_read)
19        {
20            int spectrumBytes = nBins * sizeof(__int16);
21            if (nSamples > 0)
22            {
23                for (int ipp = 0; ipp < nSamples; ipp++)
24                {
25                    if (offset + spectrumBytes > bytes_read)
26                    {
27                        std::cout << "not enough samples" << std::endl;
28                        std::cout << offset << " " << bytes_read << " " <<
29                        spectrumBytes <<std::endl;
30                        nSamples = 0;
31                        break;
32                    }
33                    std::cout << " * " << ipp << " ";
34
35                    for (int i = 0; i < nBins; i++)
36                    {
37                        std::cout << (sp2[offset + i] / float(scale)) << " ";
38                    }
39                    std::cout << "\n";
40
41                    bytes_used += spectrumBytes;
42                    offset += spectrumBytes;
43                }
44            }
45            // read header and find out # of samples
46            else
47            {
48                std::size_t split = data.find_first_of('\xle', offset);
49                if (split != -1)
50                {
51                    std::cout << " Split / offset " << split <<" / " << offset << std
52                    ::endl;
53                    std::string chk = data.substr(offset, split - offset);
54                    //std::cout << "+++++" <<
55                    int((data.substr(split, 1)).c_str()) << std::endl;
56                    offset = split + 1;
57                    std::size_t start = data.find_first_of('\{');
58
59                    std::string chk2 = chk.substr(start, chk.size() - start);
60                    std::cout << "*****" << chk2 << std::endl;
61
62                    boost::property_tree::ptree root;
63                    std::istringstream iss(chk2);
64                    boost::property_tree::read_json(iss, root);
65
66                    nSamples = stoi(root.get_child("samples").get_value<std::string

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66         >());
        nBins = stoi(root.get_child("sampleSize").get_value<std::string>());
67         >());
68         scale = stoi(root.get_child("scale").get_value<std::string>());
69
70         std::cout << "# of samples: " << nSamples << std::endl;
71         std::cout << "# of bins      : " << nBins << std::endl;
72         std::cout << "# of bytes reads : " << bytes_read << std::endl;
73         std::cout << "  offset      : " << offset << std::endl;
74         std::cout << "  scale       : " << scale << std::endl;
75     }
76 }
77
78 }
79
80
81
82     std::cout << "-----" << std::endl;
83     buffer_.consume(bytes_read);
84
85     //do_read();
86 }
87 //else
88 //{
89 //    if (!_closing)
90 //    {
91 //        throw fatal_exception("Error on connection: " + ec.message());
92 //    }
93 //}
94 }
95

```