NAME

Sereal - Fast, compact, powerful binary (de-)serialization

SYNOPSIS

```
use Sereal qw(
    get_sereal_decoder
    get_sereal_encoder
    clear_sereal_object_cache
    encode_sereal
    decode sereal
    read_sereal
    read_sereal_file
    write_sereal
    write_sereal_file
    looks_like_sereal
    scalar_looks_like_sereal
    sereal_encode_with_object
    sereal_decode_with_object
    decode_sereal_with_header_data
    sereal_decode_with_header_with_object
    sereal_decode_only_header_with_object
    sereal_decode_only_header_with_offset_with_object
    sereal_decode_with_header_and_offset_with_object
    sereal_decode_with_offset_with_object
    SRL_UNCOMPRESSED
    SRL_SNAPPY
    SRL ZLIB
    SRL_ZSTD
);
# Note: For performance reasons, you should prefer the OO interface,
        or sereal_(en de)code_with_object over the stateless
#
        encode_sereal/decode_sereal functions.
#
        See the Sereal::Performance documentation for details.
```

DESCRIPTION

Sereal is an efficient, compact-output, binary and feature-rich serialization protocol. The Perl encoder is implemented as the Sereal::Encoder module, the Perl decoder correspondingly as Sereal::Decoder. They are distributed separately to allow for safe upgrading without downtime. (Hint: Upgrade the decoder everywhere first, then the encoder.)

This Sereal module is a very thin wrapper around both Sereal::Encoder and Sereal::Decoder. It depends on both and loads both. So if you have a user of both encoder and decoder, it is enough to depend on a particular version of Sereal and you'll get the most recent released versions of Sereal::Encoder and Sereal::Decoder whose version is smaller than or equal to the version of Sereal you depend on.

The protocol specification and many other bits of documentation can be found in the github repository. Right now, the specification is at https://github.com/Sereal/Sereal/blob/master/sereal_spec.pod, there is a discussion of the design objectives in https://github.com/Sereal/Sereal/blob/master/README.pod, and the output of our benchmarks can be seen at https://github.com/Sereal/Sereal/wiki/Sereal-Comparison-Graphs.

EXPORTED FUNCTIONS

It is recommended to use the object-oriented interface of Sereal::Encoder and Sereal::Decoder if you care about performance. For detailed performance considerations, see Sereal::Performance.

You can optionally import five functions from Sereal. encode_sereal is the same function as Sereal::Encoder's encode_sereal function. decode_sereal and looks_like_sereal are the same as Sereal::Decoder's functions of the same names. Finally, you can import the advanced functional interface sereal_encode_with_object and sereal_decode_with_object. Again, see Sereal::Performance for information about those.

After loading the Sereal module, both Sereal::Encoder and Sereal::Decoder are guaranteed to be loaded, so you can use their object-oriented interface.

get_sereal_encoder(\$OPTSHASH)

Returns a Sereal::Encoder with the given options. This encoder will be shared by other calls to this function.

$get_sereal_decoder(\$OPTSHASH)$

Returns a Sereal::Decoder with the given options. This encoder will be shared by other calls to this function

clear_sereal_object_cache

Clears cache of objects created via **get_sereal_encoder()** and **get_sereal_decoder()**. Returns the number of objects that were removed from the cache (the sum of both types).

write_sereal_file(\$FILENAME,\$STRUCT,\$APPEND,\$OPTS)

Write a sereal packet to \$FILENAME. See Sereal::Encoder::encode_to_file().

write_sereal(\$FILENAME,\$STRUCT,\$APPEND,\$OPTS)

alias for write_sereal_file()

read_sereal_file(\$FILENAME,\$OPTS,\$ROOT)

Read a sereal packet from a file. See **Sereal::Decoder::decode_from_file()**.

read_sereal(\$FILENAME,\$OPTS,\$ROOT)

alias for read_sereal_file()

BUGS, CONTACT AND SUPPORT

For reporting bugs, please use the github bug tracker at http://github.com/Sereal/issues>.

For support and discussion of Sereal, there are two Google Groups:

Announcements around Sereal (extremely low volume): https://groups.google.com/forum/?fromgroups#!forum/sereal-announce>

Sereal development list: https://groups.google.com/forum/?fromgroups#!forum/sereal-dev

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