



Rocky Enterprise Linux 9.2 Manual Pages on command 'Sereal.3pm'

C:\>man Sereal.3pm

Sereal(3pm) User Contributed Perl Documentation Sereal(3pm)

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/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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ACKNOWLEDGMENT

This module was originally developed for Booking.com. With approval from Booking.com, this module was generalized and published on CPAN, for which the authors would like to express their gratitude.

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perl v5.30.0

2020-02-05

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