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## YVES / Sereal-Encoder-4.010 / Changes

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1 Revision history(1) for Perl extension Sereal-Encoder
2
3 *****
4 * Warning: For a seamless upgrade, upgrade to version 4      *
5 *   of the decoder before upgrading to version 4 of the    *
6 *   encoder!                                               *
7 *****
8 4.010 Tues February 4, 2020
9   * Update miniz
10  * Update zstd
11  * perltidy perl code to a standard style
12
13 4.009 Fri January 31, 2020
14  * Update pport.h for modern perls.
15
16 4.008 Thurs January 30, 2020
17  * Fixup casting error for pedantic compilers in srl_compress.h
18  * Build fixes.
19
20 4.007 Tues Apr 9, 2019
21  * Version bump only
22
23 4.006 Mon Apr 8, 2019
24  * Version bump only
25
26 4.005 Tues Jan 23, 2018
27  * Document encode_to_file()
28
29 4.004 Sun Nov 12
30  * Fix build issues from C++ style comments
31  * Fixup build_requires
32
33 4.003 Sun Nov 12
34  * Fixup Devel::CheckLib usage
35  * Do not compress using Snappy if the buffer is larger 2**32
36  * Build fixes
37
38 4.002
39  * Full release of Zstandard compression support etc.
40
41 4.001_001 Mon Feb 6 11:13:40 CEST 2017
42  * Sereal v4 release with Zstandard compression support
43  * https://github.com/facebook/zstd
44
45 3.015 Thu Sep 1 20:18:44 CEST 2016
46  * Fix builds under 5.25+
47
48 3.014 Dec 7 2015
49  * Fix builds under 5.8.9
50
51 3.012 Dec 6 2015
52  * Yet another release related to broken META files.
53  * ExtUtils::MakeMaker and CPAN::Meta need to be up to date
54  * or the META files miss stuff.
55
56 3.011 Dec 6 2015

```

<u>57</u>	* No significant changes. Doc typo fixes, and build tweaks.	
<u>58</u>	(/)	
<u>59</u>	3.010 Dec 1 2015	▼
<u>60</u>	* Build fixes.	
<u>61</u>		
<u>62</u>	3.009 Nov 30 2015	
<u>63</u>	* Re-release 3.008 with updated META files.	
<u>64</u>		
<u>65</u>	3.008 Nov 27 2015	
<u>66</u>	* FIX: Make sure that reserializing a data structure created	
<u>67</u>	using alias_varint_under does not produce a corrupted dataset.	
<u>68</u>	Thanks to Iskra for the report.	
<u>69</u>	* FIX: Precedence issue related to sort keys options. Thanks	
<u>70</u>	to Petr Písař <ppisar@redhat.com> for the report and fix.	
<u>71</u>	* FIX: Win32 build issues, thanks to bulk88 for help.	
<u>72</u>		
<u>73</u>	3.007 Nov 26 2015	
<u>74</u>	* FIX: sorting should now work with tied hashes, and	
<u>75</u>	be in general faster.	
<u>76</u>	* CHANGED: Sort order for sort_keys=1 is now defined to be	
<u>77</u>	"in order by length of bytes, then by byte order of the	
<u>78</u>	underlying string, then by utf8ness, with non-utf8 first".	
<u>79</u>	This sort order was chosen because it requires the least	
<u>80</u>	operations to perform in the most cases, has a bounded number	
<u>81</u>	of cases where we would have to create any temporary SV's or	
<u>82</u>	to do operations that require us to introspect codepoints in	
<u>83</u>	utf8 strings. IOW purely performance. Note that so long	
<u>84</u>	as you compare data created with the same sort_keys setting	
<u>85</u>	you will ALWAYS get the same order *in process*, regardless	
<u>86</u>	of what you choose. Backwards compatible support for the	
<u>87</u>	old order is available via sort_keys=3.	
<u>88</u>		
<u>89</u>	ADDED: sort_keys=2 to provide "perl cmp order"	
<u>90</u>	(Its just there because it is easy to do, not for any	
<u>91</u>	good reason.)	
<u>92</u>	ADDED: sort_keys=3 to provide "rev perl cmp order"	
<u>93</u>		
<u>94</u>	Legacy sort order was equivalent to sort_keys=3, use this	
<u>95</u>	option *ONLY* if you are extremely sensitive to changes in the	
<u>96</u>	sorted order (or "canonical form").	
<u>97</u>		
<u>98</u>	* [DECODER] Build fixes for boxes without any Sereal installed (it seems	
<u>99</u>	to be common on certain types of smokers, and not on others).	
<u>100</u>	* Fix issues with serializing blessed scalars where we see the	
<u>101</u>	blessed scalar before we see the reference to it.	
<u>102</u>	* Handle PVLV undefs	
<u>103</u>	* Build fixes for 5.8.9	
<u>104</u>	* Doc patches	
<u>105</u>	* Optimizations	
<u>106</u>		
<u>107</u>	3.006 Nov 14 2015	
<u>108</u>	* [DECODER] fix segfaults from heavily corrupted data. Guards	
<u>109</u>	against various pathological cases which could cause segfaults	
<u>110</u>	fixed. Thanks to Damian Gryski and "fuzzing sereal with afl"	
<u>111</u>	for finding these cases.	
<u>112</u>	* [ENCODER] Various subtle fixes to how we choose whether to serialize	
<u>113</u>	the string or numeric version of a value, in particular to	
<u>114</u>	ensure that "00" always round trips as "00", and related issues.	

115 Note this fix has correctness and performance consequences. In  
116 some cases (values that used to serialized as integers (arguably  
117 incorrectly) will be serialized as strings instead, and some code ✓  
118 ~~maybe be slower to serialize.~~

119 NOTE: Some issues related to this subject are not fixable without  
120 a protocol change. In particular this change may affect the behavior  
121 of code that uses binary logical operators on values serialized  
122 with Perl.  
123 Thanks to Zefram, Tom, and others for help with this issue.

- 124 \* Fixups for cast warnings under -Wint-to-ptr builds by using
- 125 using PTR2INT and INT2PTR for casting our objects.
- 126 \* Win32 fixes
- 127 \* Build improvements
- 128 \* Changes to how we generate constants

129

130 3.005 Jan 05 2015

- 131 \* Build improvements related to char signedness being platform
- 132 dependent.

133

134 3.004 Dec 27 2014

- 135 \* Performance optimizations and other miscellaneous changes.
- 136 \* Build improvements.
- 137 \* Win32 fixes for weakrefs.

138

139 3.003 Oct 19 2014

- 140 \* Niko Tyni fixed the 64-bit big endian Sereal bug! (Yay Niko!)
- 141 \* Setup META.yml correctly so that certain dependencies are
- 142 marked as being test dependencies and not build or run-time
- 143 dependencies.
- 144 \* Allow one to build against an externally supplied version
- 145 of csnappy or miniz. Thanks to Petr Písař <ppisar@redhat.com>

146

147 3.002 Aug 20 2014

148 Summary of changes from 3.001 - 3.002

- 149 - Introduce "canonical" option to encoder
- 150 - Introduce "canonical\_refs" option to encoder

151

- 152 \* Test Infra Changes
- 153 - Split up bulk tests to speed up testing and make it easier
- 154 to see when a failure is restricted to a specific option.

155

- 156 \* Big-Endian Support
- 157 - Improved support for Big-Endian machines. We now build and pass test
- 158 on Sparc and HP-UX and other platforms with big-endian or strict
- 159 alignedness requirements. Much thanks to Jarkko Hietaniemi,
- 160 Gregor Herrmann, and H. Merijn Brand for for their assistance with
- 161 this.
- 162 - We still have issues with s390x (Z/0s) with Sereal. If someone wants
- 163 to help it would be appreciated.

164

165 3.001

- 166 - Upgrade to version 3 of the protocol
- 167 \* Add Zlib compression support to the protocol
- 168 \* Add Zlib support to Encoder/Decoder
- 169 \* Add CANONICAL\_UNDEF tag to represent PL\_sv\_undef
- 170 \* Change magic header so it is trivial to detect
- 171 and reject utf8 encoded Sereal packets.
- 172 - Change how we serialize variables which have more

173 | than one of IOK, NOK, and POK set. In general we  
174 | favour the numeric form, with the exception of when  
175 | all three are set when we favour the string form  
176 | (this is to handle engineering notation like "0E0"  
177 | where numeric and string equivalence may differ)

179 | Full change history available at <https://github.com/Sereal/Sereal>