

OSS Fast Infoset Tools

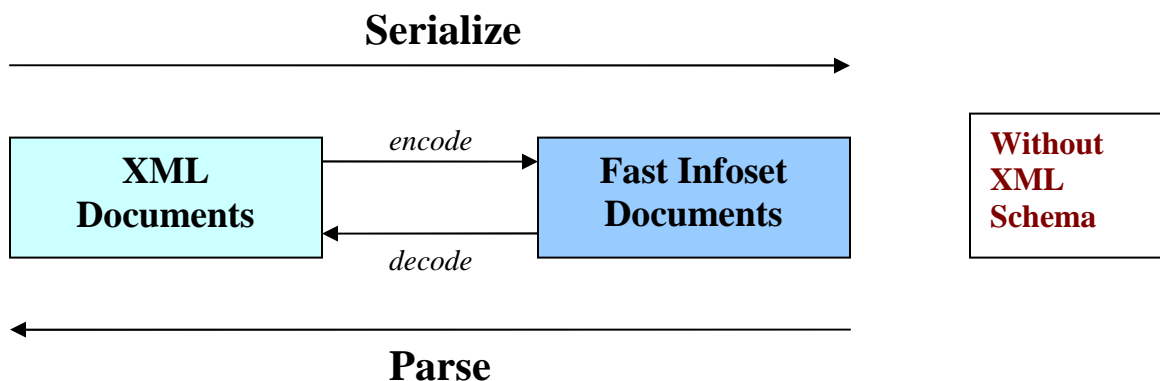
Fast, Compact XML – No XML Schema Required

Lack of XML Schema have you trapped in the XML performance battle? The OSS Fast Infoset (FI) Tools deliver standards-based, fast, compact XML, even without an XML schema. Fast Infoset (FI) is an international standard developed to address XML performance issues when deployed in bandwidth-constrained and/or resource-constrained environments. The Fast Infoset standard optimizes XML by specifying a standardized binary representation for the XML Information Set. Fast Infoset encodings provide smaller encoding sizes and faster processing times than equivalent XML representations. Fast Infoset offers significant performance improvements without requiring any XML Schema.

The OSS Fast Infoset (FI) Tools enable you to represent and transmit your XML more efficiently by utilizing the Fast Infoset encodings. Runtime API functions create and process Fast Infoset documents and perform lossless conversion between traditional XML and optimized Fast Infoset representations of XML documents.

Our Tools improve the performance of serializing and deserializing XML, allowing XML to be stored more efficiently than traditional XML documents – all without any loss of information. The OSS FI Tools deliver compression superior to utilities such as gzip, which optimize only size while Fast Infoset optimizes size and performance.

Using the OSS Fast Infoset Tools to process Fast Infoset, rather than traditional XML, results in messages averaging 3 times smaller and processing speeds averaging 5 times faster. For many resource-limited and/or bandwidth-constrained environments, this optimization means the difference between whether or not XML can be deployed.



The OSS Fast Infoset Tools implement the W3C XML specification enhanced with Fast Infoset support, as described by the following standard:

- ITU-T Recommendation X.891 (2005) | ISO/IEC 24824-1: 2005
Information Technology – Generic Applications of ASN.1: Fast Infoset

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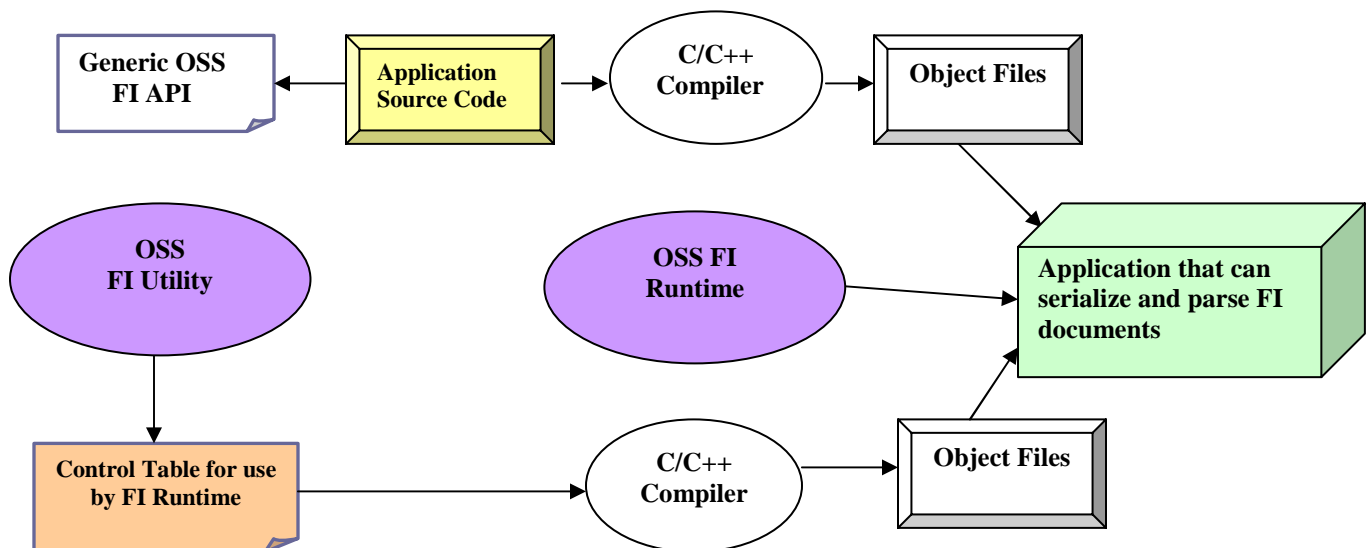
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The OSS Fast Infoset Tools allow you to...

- Serialize Fast Infoset documents by calling API functions that add information such as elements and character content to your documents, and produce encoded output to a pre-allocated buffer, dynamic memory, a file or a network socket
- Parse Fast Infoset encodings using our SAX-like decoder as if your traditional SAX parser were reading the XML document corresponding to the Fast Infoset binary data
- Manage external vocabularies, document templates (initial portions of Fast Infoset documents), and use custom encoding algorithms and restricted alphabets when encoding and decoding
- Convert XML documents to Fast Infoset and vice versa in a single function call
- Customize Fast Infoset API behavior and tune application performance via specialized runtime flags
- Seamlessly compress XML or Fast Infoset data using the included Zlib compression library or using any custom data compression or encryption algorithm
- Receive verbose textual error messages with error context identification
- **Utilize XML in environments in which its use was previously not feasible**

Building an Application with the OSS Fast Infoset Tools



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