FAPEC Archiver
for KMALL data

KONGSBERG

DAPCOM Data services
sales@dapcom.es
www.dapcom.es
+34 93 88 55 111
fapec@dapcom.es

Best **KMALL compression** in the market

- ✓ Multi-platform
- ✓ Low CPU and RAM requirements

High-performance professional data compression software

Tailored algorithms for optimum compression of **KMALL, KMWCD and WCD data**.

Additional algorithms for **CSV**, time series, images and audio.

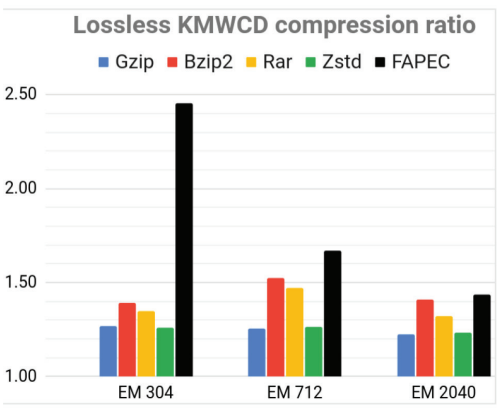
Support from DAPCOM Data Services, technological spin-off company from UPC and UB

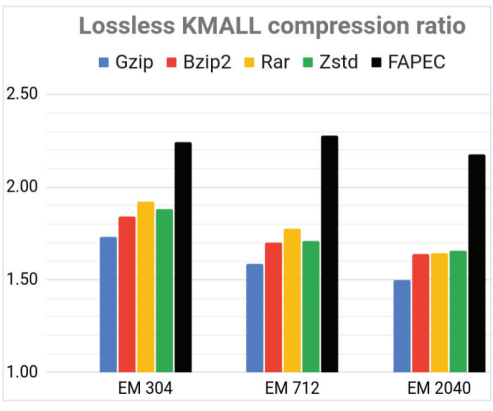
Systems and software engineering for high-performance massive data handling and analysis.

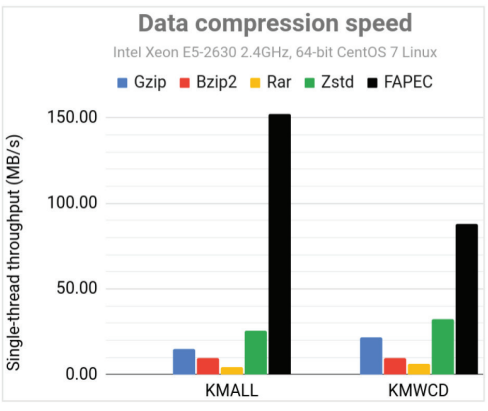
Patented data compression technology with Space heritage: ESA-Gaia (catalogue from 2 billion stars), Spire (satellite data compression).

UNIVERSITAT DE BARCELONA
Spin-off

UNIVERSITAT POLITÈCNICA DE CATALUNYA BARCELONATECH







FAPEC

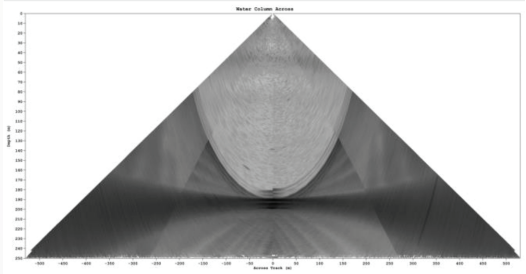
ARCHIVER for KMALL data

DAPCOM Data services
sales@dapcom.es
www.dapcom.es
+34 93 88 55 111
fapec@dapcom.es

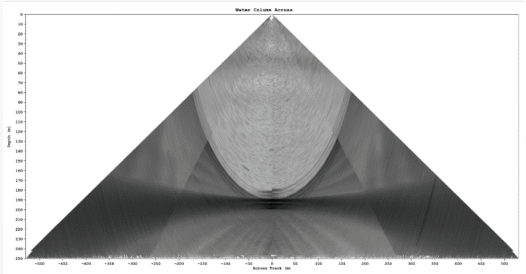
Additional
product features:

- ✓ **Multi-threading**, for even faster operation.
- ✓ **Resiliency** in case of file corruption, minimizing data loss.
- ✓ **Encryption:** XXTEA and AES-256.
- ✓ **Lossy compression option** for watercolumn datagrams.

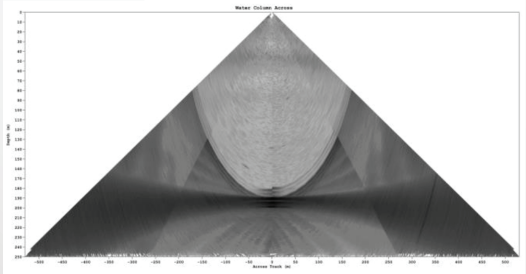
EM304 example:



Lossless: Gzip ratio 1.27
FAPEC ratio 2.45



Lossy, 51dB PSNR, MaxDiff 1.0:
FAPEC ratio 3.08



Lossy, 43dB PSNR, MaxDiff 3.0:
FAPEC ratio 4.53

Usage and integration:

- ✓ **CLI:** invoke FAPEC binaries from your scripts
- ✓ **API:** integrate the FAPEC library in your programs
- ✓ **C, Python and Java wrappers**

```
[fapec@dapcom kmall]$ fapec -dtype kmall 0019_20210409_094804.kmall

FAPEC Archiver - 21.0.0 (2021-09-20)
(c) 2013-2021 DAPCOM Data Services S.L. - https://www.dapcom.es
64/64 bit LE Restricted license for:
John D. Tester

Compressing 1 file into 0019_20210409_094804.kmall.fapec with 14 threads...
[1/1] 0019_20210409_094804.kmall (450.8 MB)...
100.0% 1228.5 MB/s  ratio 2.21

Done: 450.8 MB compressed to 204.0 MB (ratio 2.2103) in 0.4 seconds (1228.1 MB/s)
```