

CoSORT^{Version 9}

THE OPEN SYSTEMS STANDARD

Product Summary

Fast Manipulation of Big Data

- Transformation
- Conversion
- Protection
- Reporting



CoSort: It's About Time

- **Extremely Fast Sorts and Parallel Transformations**

CoSort combines high performance with functional versatility. With CoSort, you can simultaneously:

- | | | |
|-------------------|----------|------------|
| • Aggregate | • Filter | • Re-map |
| • Convert | • Join | • Report |
| • Cross-Calculate | • Lookup | • Sequence |
| • De-identify | • Mask | • Sort |
| • Encrypt | • Merge | • Validate |

- all in one pass through large, multi-formatted inputs. CoSort also supports Perl Compatible Regular Expressions (PCRE), custom field functions for securing private data, cleansing, and other complex transforms.

- **Supports Virtually Any Volume, Data Type, Relational Table and Flat-File Format:**

CoSort collates and converts more than 100 data types, including EBCDIC, zoned decimal, IP addresses, Unicode, COBOL, VarChar, multi-byte Asian characters, and timestamps. CoSort can also convert files between CSV, ISAM, LDIF, Vision, XML, and several other sequential file formats, while also moving between big- and little-endian formats.

- **Accelerates Database and Data Warehouse Operations:** CoSort can select, join, order-by, and group-by faster than DB2, Oracle, Informatica, and DataStage. By sorting, joining and segmenting billions of flat-file rows, CoSort captures changed data and speeds bulk loads while reducing database overhead and storage space.

- **Protects Data at Risk – at the Field Level:** CoSort can mask, de-identify, encrypt, filter, and pseudonymize sensitive data at the field level. CoSort can secure sensitive fields in tables and files, create an audit trail, and leave remaining data open for processing.

- **Simple, Centralized, Open Metadata Infrastructure:** CoSort runs with familiar and explicit data definition and manipulation statements residing in reusable text repositories. Several applications create or leverage CoSort metadata, including IRI's Fast Extract (FACT) and RowGen (test data) tools, the RapidACE data model consolidator, the Meta Integration Model Bridge (MIMB), and the following:

Legacy Sort and Metadata Migration Tools

- **JCL:** Converts MVS and VSE sort parameters to CoSort (SortCL) job scripts.
- **Micro Focus COBOL:** Drop-in replacements for Micro Focus COBOL (Net Express, Server Express and Workbench) runtime sort verbs. CoSort also collates and converts MF Variable Length and I-SAM files.
- **ACUCOBOL-GT:** Drop-in replacement for the ACUCOBOL-GT sort verb on UNIX. CoSort also collates and converts Vision index files.
- **COBOL Copybooks:** Converts COBOL FDs to SortCL data definitions.
- **Other Metadata:** CSV, CTL, ELF, LDIF and XML file parsers create SortCL data definitions.

Replacing Third-Party Sorts

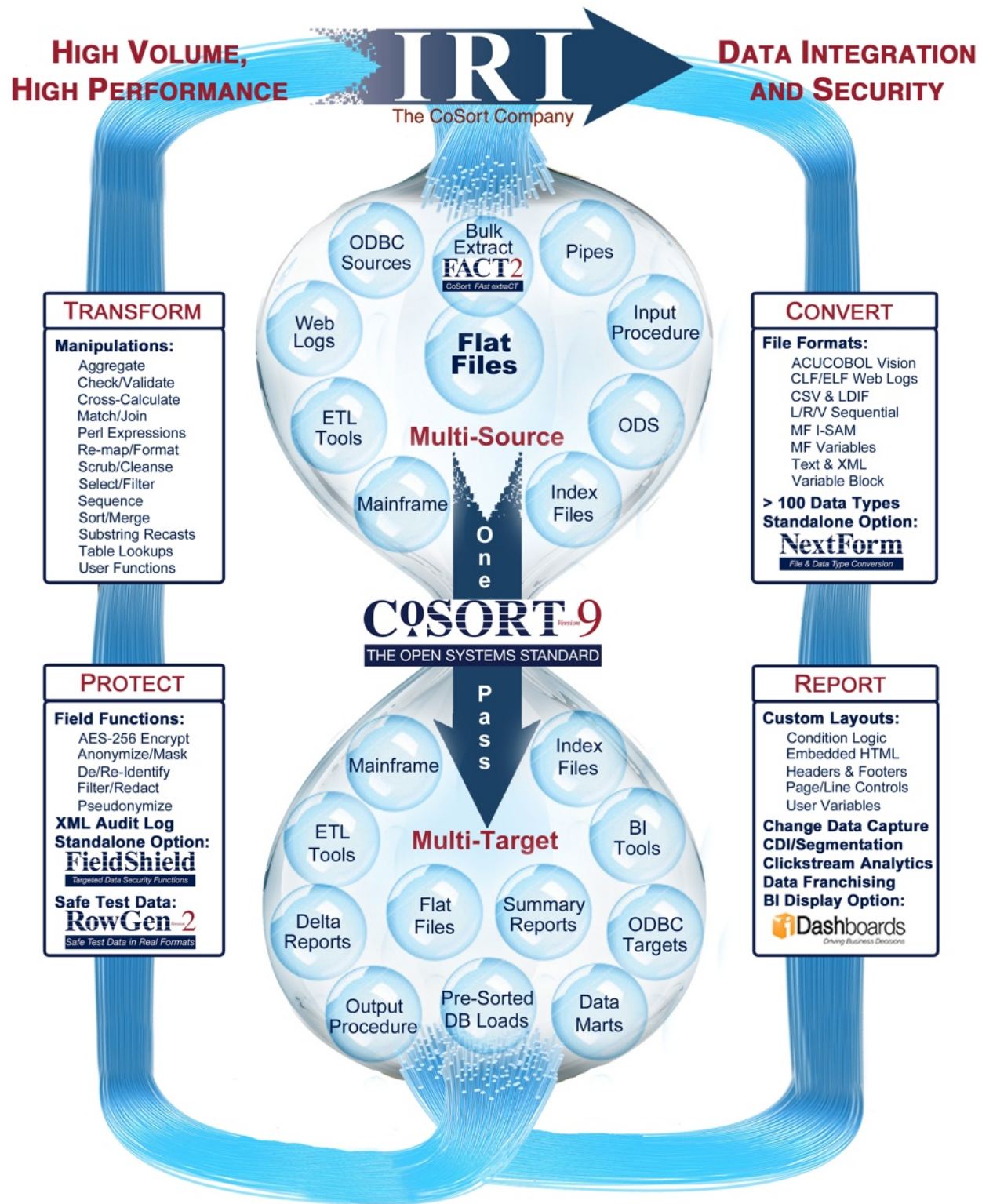
- **IBM WebSphere DataStage** - exclusive sort stage plug-in
- **Informatica PowerCenter** - exclusive Sorter Tx custom transform
- **Clerity Mainframe Rehosting Software** - UniKix MBE/TPE sorts
- **UNIX** - /bin/sort command

CoSort Business Benefits

- Parallel transforms increase data availability for ETL and BI operations
- Task consolidation reduces process runtimes and software costs, and delays hardware upgrades
- Built-in field security reduces risk of fines, brand damage, and litigation
- Intuitive syntax reduces development time, training and modernization costs, and job maintenance
- Seamless accelerations optimize ROI for packaged applications and ETL tools
- Flexible, perpetual-use licensing models

Fast Single-Pass Data Manipulation

CoSort's parallel processing engine accelerates big data integration and staging jobs. All these critical functions can run at the back end of any large data warehouse or webhouse – and all in one pass through the data.



Data & File Sources

- ASCII, EBCDIC, COBOL and C (binary) forms
- European, ISO, Japanese & U.S. Timestamps
- IP Addresses, Whole Numbers
- Bulk RDBMS Unloads - via Fast Extract (FACT)
- ODBC-connected Database Tables
- ACUCOBOL-GT (Vision) Indexed Files
- IBM Unblocked Variable Record Format
- LDIF (LDAP), Microsoft CSV, Flat XML
- Micro Focus Variable Length & I-SAM Files
- Sequential Flat Files (Line, Record, Variable)
- Fixed Block File Format
- VSAM - via Clerity Mainframe Re-hosting
- W3C Common & Extended Log (Web)
- Unicode and Native Multi-Byte Character Sets

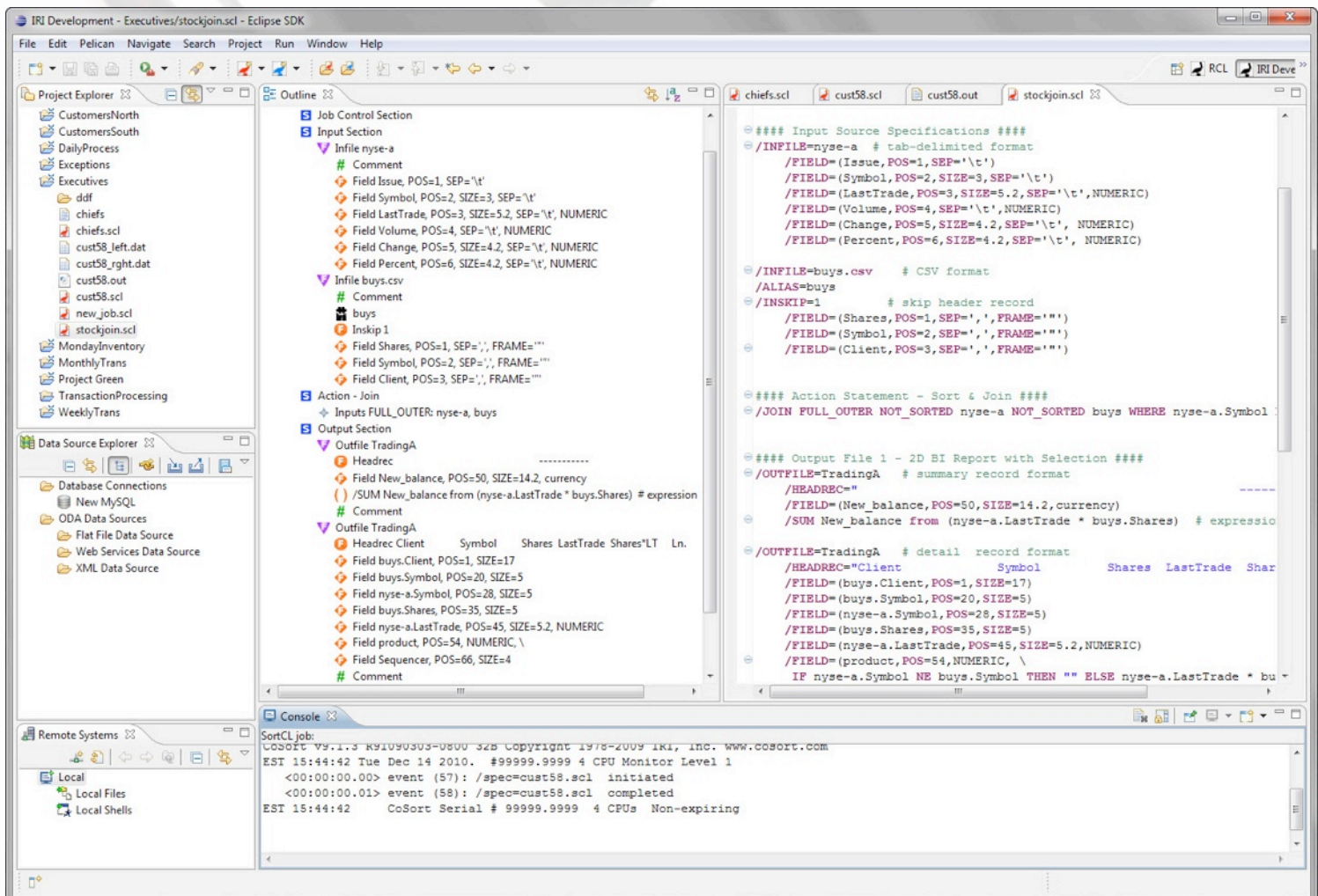
Compatible Products

- FACT - Fast Extract for Oracle, DB2, et al.
- FieldShield - Audited Data-Centric Security
- MIMB - Meta Integration Model Bridge
- NextForm - File and Data Type Conversion
- RapidACE - 3D Data Model Integration
- RowGen - Referentially Correct Test Data

Supported Platforms

- UNIX (AIX, HP-UX, Solaris, Tru64 & more)
- Linux on x86, Itanium, IBM x/p/i/z; FreeBSD
- Windows® (XP, 2000/2003/2008, Vista, 7)

CoSort Graphical Integrated Development Environment



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