



**IRI CoSort**  
Sort, Transform & Report

- Legacy Sort Replacements
- Fast Manipulation of Big Data
- DB and ETL Tool Acceleration
- Embedded BI & Data Wrangling

Proven Processing Power

Launch Date: 1978



**Version 11 Product Summary**

## It's About Time

- Fast, Consolidated Data Processing**

IRI CoSort optimizes and combines key data manipulations. Transform, convert, protect, and report in one I/O pass:



- Any Data Volume, Any Structured Source**

CoSort manipulates and remaps data big and small in structured data sources, on-premise or in the cloud.

- Fast Database and DW/BI Operations**

CoSort can select, join, order-by, and group-by 6-10X faster than every major ETL tool and DB engine. CoSort also captures changed data, speeds bulk loads, and wrangles data for BI reducing processing overhead and storage space.

- Targeted Data Security**

CoSort can de-identify, encrypt, redact, pseudonymize, and randomize data at the field level. Mask personally identifiable information in tables and files, and create an audit trail to verify compliance with data privacy laws.

- Simple, Centralized, Open Metadata**

CoSort uses familiar and explicit data definition and manipulation specifications in reusable repositories. All IRI software uses the same 4GL syntax (SortCL) for data definitions, which Erwin and other third-party platforms also support.

- Runtime Operational Governance**

CoSort now also features granular Attribute and Role-Based Access controls for SortCL elements, metadata and user cataloging, script tampering detection, plus rich runtime logs in JSON with creation, retention, and wrangling support.

## Legacy Sort and Metadata Migration Tools

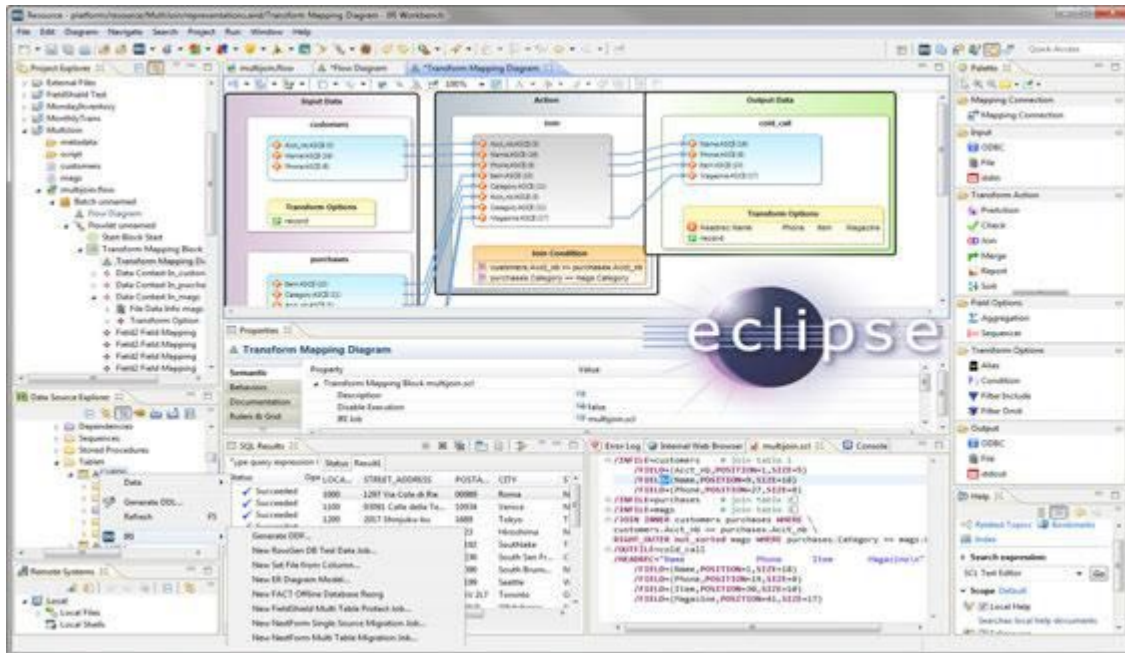
- JCL:** Convert MVS (z/OS) and VSE sort parameters to CoSort Sort Control Language (SortCL) job scripts.
- Amdocs Ensemble:** Through legacy sort migrations to SortCL.
- Micro Focus COBOL:** Replacements for ACUCOBOL-GT and Micro Focus COBOL (Enterprise Server, NetExpress, Server Express, and Workbench) runtime sort verbs. Collate and convert Vision, I-SAM, and MF Variable Length files.
- Metadata Converters:** Parsers for CPY, CSV, CTL, DDL, ELF, JSON, LDIF, and XML to auto-create SortCL data definitions.

## Third-Party Sort Replacements

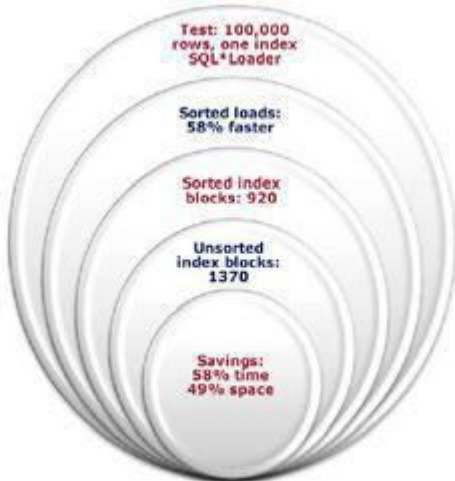
- IBM DataStage** - sequential file stage command, before-job subroutine
- Informatica PowerCenter** - pushdown optimization
- Software AG** - Natural sort plug-in
- Dell** - UniKix MBE/TPE sorts
- Unix** - /bin/sort command
- z/OS JCL Sorts** - via AI-powered parm conversion, or Proximal Systems' proxy coupling technology

# IRI Workbench for CoSort, Built on Eclipse™

Create, run, and manage jobs in a free graphical IDE. Wizards and diagrams – plus a syntax-aware, outline-supported script editor – facilitate onboarding, solution development and modification, team-sharing, data lineage, and metadata management.



## Speed VLDB Loads & Reorgs



*By pre-sorting with CoSort, bulk loads are faster, which makes it easier to maintain more tables in query order.*

## Speed BI, ETL & SQL Tools or Tasks

- BI Tools - BOBJ, Cognos, Cubeware, Datadog, Excel, iViz, KNIME, MicroStrategy, Oracle DV/D, Power BI, QlikView, R, Splunk, Spotfire, Tableau
- ETL Tools - Actian, DataStage, Informatica, ODI, Pentaho, SSIS, Talend, etc.
- SQL Transforms - faster sort, join, etc.

## Supported Platforms

- Linux on x86, Itanium, IBM s/p/i/z
- UNIX (AIX, HP-UX, macOS, Solaris)
- Windows® (Server 2000-2025, 7-11)

## Static & Streaming Sources

- ACH and Fedwire banking industry files
- ACUCOBOL-GT (Vision) indexed files
- ASCII, EBCDIC, COBOL and C (binary) forms
- ASN.1 CDR files (multiple encodings via OSS)
- Custom procedures, pipes and .g/zip files
- RDB tables (via ODBC) and Excel sheets
- European, ISO, Japanese & U.S. timestamps
- Fixed position and block file formats
- IBM unblocked variable record files
- IP Addresses, Whole Numbers
- LDIF (LDAP), CSV, and flat JSON or XML
- Micro Focus Variable Length & I-SAM files
- Sequential Files (Line, Record, Variable)
- Unicode and native multi-byte character sets
- VSAM (via Dell mainframe rehosting or flat)
- W3C Common & Extended (web) Logs
- HDFS, Azure S3, GCP, S3, OneDrive stores
- Kafka and MQTT message brokers
- S/FTP, HTTP/S, and other URLs

## Compatible Products

- Splunk & KNIME - Indexing and Analytics
- DataSwitch - No code, AI-enabled engineering
- Erwin Mapping Manager & MITI MIMB
- IRI FACT - Fast Extract for Oracle, DB2, et al.
- IRI FieldShield - Data Masking
- IRI NextForm - Data and Database Conversion
- IRI RowGen - Referentially Correct Test Data
- IRI Voracity - Total Data Management
- Melissa Data & Trillium - Data Quality

## CoSort Business Benefits

- Parallel transformations increase data availability for data warehouse ETL, ELT, and ODS staging
- Task consolidation speeds runtimes, minimizes CPU cycles, and delays hardware upgrades
- Fast, feature-rich 4GL replaces slower 3GL programs, shell scripts, and SQL procedures
- Combinatory integration and reformatting operations wrangle data for AI and analytics
- Intuitive, open job scripts and metadata reduce learning and maintenance burdens
- Integrated operational governance supports granular runtime A/RBAC and logging
- Familiar Eclipse GUI facilitates collaborative job design and Git management
- Seamless sort plugins and parm converters optimize legacy sort migrations
- Built-in detail, delta, and summary reporting speed decision-making
- Built-in data masking and synthesis functions reduce PII data risk
- Flexible licensing models lower acquisition and ownership costs

## Typical CoSort Users

### American Airlines - Sabre

*"Fortune Magazine says our yield maximization system is private industry's most frequently updated database -- one of the world's largest! We chose CoSort to quarter the time batch reorgs take our airline clients on their SMP systems. The CoSort team responds rapidly and fairly to our technical and business needs."*

### Modern Systems (Advanced)

*"We completed a migration of a large MVS/ADSO environment (CICS and BATCH) to Sun Solaris/Oracle. The sorting requirements were very complex with a lot of totaling and speed requirements. This project required a lot of technical interaction and support from the CoSort team who were very responsive, helpful and professional. In our experience the CoSort solution provides the best value for performance, support, and cost of ownership."*

### Comcast

*"The Comcast Data Engineering and Management Integration (DEMI) organization distributes 10 terabytes of business-centric DAP (Directory Access Protocol) data on a daily basis to the rest of the company. The fact is we would not be able to pull this off successfully without CoSort. It accurately and quickly processes billions of rows of DAP data; and allows us to join and analyze this information in connection with our other data warehouse processes. No other tool gives us this much speed and flexibility, or even allows the processing of this volume of flat-file LDIF records. The very talented CoSort team worked with us to develop and prove out this capability very quickly. In turn they developed a long-term customer relationship with America's largest Cable Operator, and a large (50 TB) and growing data warehouse."*



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