

Product Brief

Key Benefits

- Cost-effective, customized reports that can be run by users of all experience levels.
- Supports agile development by maintaining code using familiar and modern tools.
- Reduces costs and minimizes backlogs for developers creating, debugging, and running reports.

Key Features

- **VS Code Extension:** Developers new to mainframe can work with Easytrieve using familiar, open-source tooling.
- **Performance Optimization:** Gain deeper insights into performance and code coverage to uncover program performance bottlenecks and increase test coverage.
- **Output Formats:** Supports HTML for easy web access and XML for easy integration into web applications for real time data.
- **Data Interface (PanSQL/Native) on Mainframe:** Natively supports IDMS™, Datacom™, SQL on Db2, Oracle, and IDMS and Datacom using PanSQL.
- **Data Interface (ODBC) on Distributed Platforms:** Supports any ODBC-enabled data source, including IDMS, Datacom, Microsoft Access, SQL Server, Oracle, Db2, MySQL, and PostGres.
- **Printer Set Definition (PSD) Editor GUI:** Assists in building complex definitions targeted for any platform, allowing the creation of custom-formatted HTML/RTF reports.

Easytrieve™ Report Generator

Overview

Easytrieve™ Report Generator is a powerful information retrieval and data management system for mainframe, UNIX, Linux, and Windows environments. It combines an enterprise report generation platform with data manipulation functionality and provides access to data residing on mainframe or other supported platforms using the clear, English-like Easytrieve language. Next-gen developers can use the VS Code extension to interact with the platform enabling modern, shift-left capabilities to eliminate repetitive, manual tasks and fuel productivity. Designed with efficiency in mind, the included Profiling Toolkit helps fine-tune runtime performance and optimization.

Business Challenges

Improve Availability of Critical Business Data

Organizations need to quickly and effectively access large volumes of complex, business-critical data resources that reside in heterogeneous data sources and platforms across multiple applications. In such complex environments, any delay in relaying business-critical information can have a significant impact on an organization's ability to deliver value to end users.

Increase Productivity Across Heterogeneous Environments

Application development must confront the need for report generation as part of an application for end users or internal system analysis across multi-platform environments. Wherever possible, the ability to reuse built-in application resources is paramount. Any development effort that has to be retooled to fit a particular platform or need at hand will increase the cost of maintaining and testing code.

Relieve the Burden for Application Developers

With the vast majority of critical business data residing on the mainframe, application developers are often tasked with creating, debugging, and running all types of reports. Since this skill set is in limited supply, these requests can greatly increase the information request backlogs for core development teams. This can lead to a very costly report generation process, as well as an increased need to maintain hundreds of lines of COBOL code for a simple report.

Empower the Next Generation of Application Developers

The need to offer alternatives or unprecedented access to modern DevOps tooling on the mainframe is fueled by the fact that it is needed to attract and empower a whole new generation of developers with a wide range of tools that suits their style including IDEs, task runners, scripting and test automation, and more.

Key Features (cont.)

- **Flexible Input Capability:** Allows data sources to be called with a synchronized multi-file input capability for simpler testing.
- **Advanced Functions:** Eases the use of complex functions such as searching files, sorting, merging, matching, or logically structuring data.
- **Structured Language Construct:** Provides easy to follow programs with little maintenance effort required for managing lines of code.

Critical Differentiators

- **Reduced Time-to-Market:** Relieves the burden on COBOL developers and overcomes the daily challenge of creating cost-effective reports.
- **Improved Data Analysis and Access:** Advanced and simplified architecture minimizes delays in processing workload throughout the enterprise, thereby speeding up the processing of business data.
- **Advanced Reporting Functionality:** PanAudit™ Plus allows for calling auditing, statistical and sampling macro routines to avoid programming commonly used and complex accounting functions. Additionally, support for data sources ranging from flat files to major database systems puts Easytrieve Report Generator at the center of reporting in heterogeneous IT environments.

Solution Overview

Easytrieve Report Generator is an enterprise reporting tool designed to relieve the burden on COBOL developers to create, debug, and run all types of reports, which helps reduce costs and minimize backlogs.

Its English-like language and clear declarative statements provide the tools to produce comprehensive reports and screens. These reports can run every day as a routine production summary or be produced to support ad hoc requests. Easytrieve runs interactively for data inquiry, analysis, maintenance, and reporting.

The VS Code extension leverages the language server protocol to provide features such as autocomplete, syntax coloring, hover, and Go to definition, as well as diagnostic features for Easytrieve code and its macros.

The extension also has the capability to generate JCLs to wrap around the Easytrieve program to execute on the mainframe. A Profiling Toolkit uncovers potential program performance; MIPS can then be reduced to improve performance bottlenecks, ultimately lowering the total cost of ownership.

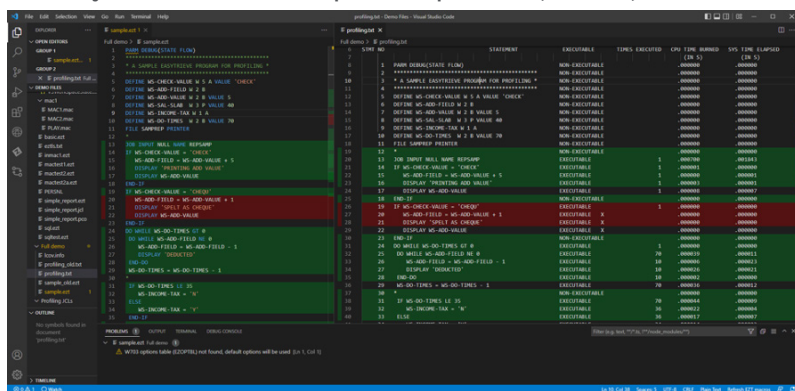
The code coverage feature provides assistance analyzing the code coverage for Easytrieve programs. This tool works in both the Compile-and-Go mode as well as the Compile-Link-and-Execute mode of Easytrieve.

Easytrieve operates in various environments including mainframe, UNIX, Linux, and Windows. One of the most powerful aspects of Easytrieve is that once an application has been developed, it can be ported to any other supported platform with minimal effort. Easytrieve also supports data from multiple repositories, performs fundamental data management tasks, and outputs the results to a file, HTML, or XML.

Modern User Experience

Easytrieve embraces the latest in application development user interfaces, delivering the modern experience desired by next-gen developers.

Figure 1: Easytrieve Modern Development Experience (VSCode)



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