

## Assembler Knowledge Management

- Know the full extent of your of Assembler assets
- Improved Code Comprehension
- Easier System Maintenance
- Accurate Impact Analysis
  - On-line Up to date Documentation

Today as never before IT departments are in an environment where rapidly changing business requirements and constantly evolving technologies are the daily norm. SML's products are one of the most cost-effective means of maintaining your Assembler environments or provide a path enabling evolutionary change from one environment to another.

Our Audit and Discovery Services and the SML's FermaT Workbench can make a significant impact on your costs and productivity.



It is well accepted that Assembler is the most complex environment for development. There were very good reasons for choosing Assembler at the time. When performance was a key factor and choice was limited. However there is no doubt that extensive Assembler estates present a set of issues that need careful management. This complexity also leads to many other issues such as lack of system documentation and knowledge being people dependent with the risks this brings.

Organisations are now looking to leverage their investment in their Assembler systems but need to find a way to manage the risks around these systems.

SML's products help you achieve this.



SML provides a rich toolset which will enable you to take your Assembler systems forward or to make an inventory of your Assembler estate prior to migrating to a new environment.

Within our Audit and Discovery service you will find extensive reports that will unveil your Assembler systems underlying complexity. You will be provided with factual complexity scores calculated from the way instructions are used within your environment. Over time you will be able to track whether your systems are becoming more complex. You can insist that complexity scores are not allowed to increase as system changes are delivered. You will be able to clearly see where your testing effort is required and it will put into context the estimating metrics provided by your developers. This is both a management tool and also a development tool.

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## SML's FermaT Workbench



The FermaT Assembler Analysis Workbench contains a suite of integrated tools designed specifically to improve Assembler code comprehension and maintenance productivity. The Workbench provides developers with a graphical view of the code at both a system and individual module level, automatically documenting the system and producing Call Graphs and Flowcharts to aid understanding and document its structure and logic.

Individual module dependencies (calls to macros, copybooks and other modules) are shown in the Function Catalogue, which is integrated with the other tools. Information about a program's data usage is captured and displayed within the Workbench Data Catalogue, providing the developer with information on each particular data item's structure, format and type.

All of the various Workbench tools are integrated via a common repository populated by a sophisticated Assembler parsing technology. The imported code is automatically analysed for Data Flows and Control Dependencies, this enables the FermaT Workbench to immediately identify Dead and Deleted Code within modules.

The workbench also includes an integrated, Assembler-sensitive Editor and Data Tracking facility that is to be used to track how and where a particular data item is used within the often complex logic of an Assembler application.

The parser, together with Fermat's unique intermediate language and powerful program transformations, captures all the information necessary to enable a developer to quickly and accurately maintain even complex, poorly documented Assembler code.

SML will work with you to help integrate the Audit and Discovery and Workbench into the heart of your development lifecycle. Together we can ensure you achieve your productivity goals.

Just call us on the number below.

SML's Product Set		
Audit and Discovery	<ul> <li>Understand the full extent of your Assembler Estate</li> <li>Understand the Complexity of the modules that make up your systems</li> </ul>	
SML Workbench	<ul> <li>Increase Developer productivity by 30%</li> <li>Create a Knowledge Repository of your business rules</li> </ul>	
SML Migration Discovery	<ul> <li>Migrate all or part of your Assembler into Cobol or 'C'</li> <li>Use Automatic Migration with no manual coding</li> <li>Achieves functional equivalence</li> </ul>	



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