

# AN UPDATE ON DEVOPS

Marble Computer, Inc.

November, 2015

## Control/SE and DevOps

Control/SE is designed for managing large legacy COBOL applications on the Mainframe. For many large organizations the continued use of the Mainframe platform is justified as a backend data server. This is true for 2 reasons, Total Cost of Ownership (TCO) and security. So we find Mainframes still processing large batch jobs utilizing COBOL code that goes back 40-50 years. The “Tribal Knowledge” is long gone.

Development teams are now situated throughout the Globe and Operation teams are still hostage to development coding errors that cause Abends and unpredictable results.

The whole concept of DevOps is to bring these two areas of IT together in all phases of the Application Life Cycle. Not just for code changes and production implementation but in the business process. Remediating an old COBOL program without the proper documentation can cause logic errors in the business rules, as well as re-open old coding errors.

Two primary functions in DevOps are the TTD (Time To Detect) and TTC (Time To Change).

Control/SE can benefit both Development and Operations in the quick analysis of the problematic COBOL program’s Time to Detect. Control/SE’s multifunctional Intelligent Macro command capability dramatically reduce the Time To Change.

Control/SE utilizes the most widely used Mainframe Editor—ISPF. ISPF has been used by generations of programmers and operations personnel from the earliest days of mainframe computing. Control/SE’s macros have been integrated into the ISPF FIND command thus, the learning curve is simple and efficient.

IBM estimates that there is now around 350 billion lines of COBOL code being maintained throughout the world. These are mainframe production applications that store and serve as much as 70% of the world’s Enterprise Data (e-Week 5/30/14). With a dwindling supply of expertise and a retiring workforce what will happen to these Mainframe based applications?

### Did you know.....

Marble Computer has been in business since 1983.

Our primary product DCD IV helps major corporations manage their mission critical applications 24x7.



Marble Computer's Control/SE Improves Programmer Productivity

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## Why Control/SE

Until now, no mainframe software company has really figured out how to use ISPF to make the Documentation and Analysis of source code, most specifically COBOL, a highly productive environment for mainframe COBOL programmers and IT operations personnel.

Control/SE for COBOL, is an alternative methodology for coding mainframe languages utilizing ISPF in a much more productive way than previously thought.

Control/SE provides a 25-35 percent productivity increase over using current productivity products on or off the mainframe.

Control/SE creates a new powerful way to use the ISPF editor that makes it simple for the COBOL programmer or Operations team to quickly understand the flow of the program as to data and process. Business rules are easily interpreted, data analysis is made simple, dead code is found and can be eliminated.

As for security, coding source on the mainframe is still the safest environment. Proprietary business logic, pricing and other key competitive information is best kept off the PC environment. ISPF works with mainframe security software that has been in use for generations of mainframe coders.

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## Control/SE

The new way to manage the mainframe source code environment.

With over 38 years of mainframe experience Marble Computer is taking the legacy of it's DCD product line and utilizing the most advanced techniques for programmers to document and understand a programs logic and business rules.

Program modifications are made quickly, easily and accurately.

For more information:

Call (800) 252-1400 to arrange for a demo.



Marble Computer is an IBM Business Partner for z/OS Software.

## How Control/SE Works:

Control/SE creates a new powerful way to use the ISPF editor that makes it simple for the COBOL programmer to quickly understand the flow of the program as to data and process. Business rules are easily interpreted, data analysis is made simple, dead code is found and can be eliminated.

By utilizing Control/SE's simple command structure and operational command words programmers can issue an ISPF FIND for Macro functions.

CSE's command structure:

### Find &(Operand)

Some **OPERAND** Examples:

FIELD-NAME

CICS

COPY

CODE-NOT-USED

ERRORS

FORWARD-TRACING

SQL

OPEN

PERFORM-ANALYSIS

PERFORMED-ROUTINES



### The Find &(Operand) Command Is Simple And Easy To Use

By utilizing Control/SE's simple command structure and operational command words programmers can issue a Find for Macro functions like Code-Not-Used or Forward-Tracing.

Documenting the complete flow of a single data field is available with one simple FIND command to show the complete flow (*and more*) on that data field.

Forward tracing show the flow of the program logic through the Procedure Division.

Follow the use of nested performs through their looping functions.

Flag errors such as differences in Reserved Words, all the way back to COBOL 68 or COBOL 74. Now your programmers can bring the code up to COBOL Version 5.2 without the fear of introducing errors.

Deliver well documented COBOL programs for beta and systems testing knowing that the code does not re-introduce old or create new Job Failure possibilities.

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## Control/SE's Benefits

Marble Computer has created a simple command structure, with the addition of one character (the & character) added to the Find Command that works with a program's data names, paragraph names, and more. So the adoption rate is fast and efficient. Control/SE requires very little training.

By using the **&**, as in 'Find **&**Operand' the programmer is now in control of the code from the Working Storage Section to Procedure Division including all Record formats as well as all Copybooks.

No compile is necessary prior to using Control/SE. Control/SE produces an alternative compile listing (ACL) that makes the COBOL compiler listing obsolete and the ISPF Control/SE output is viewed under the ISPF editor, thus saving CPU cycles.

Productivity is dramatically increased from the time the code is opened for remediation until it's ready for Alpha and Beta Testing.

Management statistics are produced so that the final code changes can be analyzed as to the quality of the program as well as the programmer. Project management is now able to deliver projects on time and under budget.

Better code means less Job Failures which creates better utilization of the production environment, makes life easier for Job Schedulers and those that support Job Scheduling systems.

Control/SE is available for COBOL, new modules will be delivered for PL/1 and Assembler in future releases.

Marble Computer software products are z/13 compliant, support z/OS V2.2 and COBOL Version 5.2.



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