

28 June 1985<sup>1</sup>

Pascal 180 Project Plan (Release 1.1.4)

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Control Data Private

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1.0 INTRODUCTION

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1.1 BACKGROUND

Pascal 180 was first released for 1.1.3 and implements the ISO and ANSI standards with several extensions (see references 1, 4 and 5).

1.2 GOALS

The goals for Release 1.1.4 for Pascal are to improve the product via such further extensions as are possible and to correct problems discovered with the initial release. The identified items for 1.1.4 are:

1. Structured Constants (see reference 3).
2. Improvement of Syntax Error Texts
3. Improvement of Run Time Errors (i.e., reduce list of errors not detected)

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## 2.0 IMPLEMENTATION STRATEGY

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For the structured constants extension, the TWS grammar will be modified to accommodate the syntax required. The constrainer will be modified to perform the required semantic checks and to perform the required code selection.

For the improvement of syntax error texts, modifications to TWS to allow user error processing will be investigated. Should that task prove unprofitable, an interface to cleanse the diagnostics will be provided by Pascal. This should allow production of more readable and informative diagnostics.

Time permitting, the existing RSEs relating to Pascal Errors Not Detected will be addressed and where appropriate, modifications will be made to the code selection process to allow diagnosis of those errors.

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### 3.0 ASSUMPTIONS AND DEPENDENCIES

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##### 3.1 ASSUMPTIONS

1. TWS will continue to be used for the scan/screen/parse function.
2. No new support code will be required of other projects.

##### 3.2 DEPENDENCIES

Release 1.1.4 introduces no new dependencies.

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4.0 RISKS

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The only known risk is that TWS may be deemed unacceptable as a software tool because of the quality of diagnostics. Should this occur, the recourse would be to write a scanner and parser by hand. This would make inclusion of new features for 1.1.4 unlikely, but would probably enhance the syntax diagnostic texts.

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The deliverables for 1.1.4 shall be:

1. Updated Pascal processor
2. Updated ERS
3. Updated Usage Manual

5.2 SCHEDULE OF PHASES AND DELIVERABLES

	Start	Complete
Analysis and Design Phase		
Feature Design	31May85	31Jul85
ERS Update to DCS		31Jul85
Implementation Phase		
Feature Code	1Aug85	30Sep85
Usage Manual Update	1Aug85	30Sep85

5.3 RESOURCES AND BUDGET

See 1985 TRACs and PMS for project number 43NW8602.

5.4 COMPUTER RESOURCES

Maintenance of current level of computer resource availability is sufficient.

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6.0 REFERENCES

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1. Pascal 180 ERS: S4509, 30 April 1985
2. Pascal 180 DR: S4647, 15 January 1985
3. ANSI X3J9/JPC/85-036, Structured Constants: 19 March 1985
4. Specification for Computer Programming Language Pascal, ISO dp7185, 1983.
5. American National Standard Pascal Computer Programming Language ANSI/IEEE770x3.97-1983.

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