AUTOMATED BEST VALUE MODEL DECISION SUPPORT SYSTEM

FUNCTIONAL DESCRIPTION

DECISION SUPPORT SYSTEM

FOR

DEPARTMENT OF DEFENSE
DEFENSE LOGISTICS AGENCY
Director (Procurement)
CAMERON STATION
ALEXANDRIA, VA 22304-6100

INSIGHT THROUGH ANALYSIS

DORO CORPORATE RESEARCH

94 4 5 116
AUTOMATED BEST VALUE MODEL
DECISION SUPPORT SYSTEM

FUNCTIONAL DESCRIPTION

DEPARTMENT OF DEFENSE
DEFENSE LOGISTICS AGENCY
Executive Director (Plans & Policy Integration)
CAMERON STATION
ALEXANDRIA, VA 22304-6100
TABLE OF CONTENTS

SECTION 1. GENERAL..................................................1
  1.1 Purpose of the Functional Description..........................1
  1.2 Project References...........................................1
  1.3 Terms and Abbreviations......................................2

SECTION 2. SYSTEM SUMMARY...........................................2
  2.1 Background................................................2
  2.2 Objectives................................................2
  2.3 Existing Methods and Procedures.............................2
  2.4 Proposed Methods and Procedures.............................3
    2.4.1 Summary of Improvements................................4
    2.4.2 Summary of Impacts.....................................4
  2.5 Assumptions and Constraints..................................5
    2.5.1 Availability of Valid Data............................5
    2.5.2 Operational System Functionality.......................5
    2.5.3 Evolving Data Requirements.............................5

SECTION 3. DETAILED CHARACTERISTICS................................5
  3.1 Specific Performance Requirements...........................5
    3.1.1 Accuracy and Validity..................................6
    3.1.2 Timing...............................................6
    3.1.3 Capacity Limits......................................6
  3.2 Functional Area System Functions............................6
    3.2.1 Standard Reports.....................................6
    3.2.2 Ad Hoc Queries......................................7
  3.3 Inputs and Outputs..........................................7
    3.3.1 Inputs..............................................7
    3.3.2 Outputs............................................7
  3.4 Database/Data Bank Characteristics...........................8
  3.5 Failure Contingencies......................................8

SECTION 4. DESIGN CONSIDERATIONS...................................8
  4.1 System Description..........................................8
  4.2 System Functions..........................................9
  4.3 Flexibility...............................................9
  4.4 System Data.............................................9

SECTION 5. ENVIRONMENT..............................................10

SECTION 6. SECURITY................................................10

SECTION 7. SYSTEM DEVELOPMENT PLAN................................10

SECTION 8. COST CONSIDERATIONS....................................10

Appendix A - Analytic Services Agreement..........................A-1
Appendix B - List of Data Elements Ordered By Source..............B-1
Appendix C - New Data Element Requirements.........................C-1
Appendix D - Current Data Elements Requiring Archival............D-1
Appendix E - Standard Report Formats................................E-1
Appendix F - Pseudocode Computations to Produce Reports...........F-1
Appendix G - Partial Prototype of ABVM DSS Implemented in dBase IV...G-1
# LIST OF FIGURES

<table>
<thead>
<tr>
<th>Figure</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Overview of Procurement Information Flow</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>ABVM DSS Relationship to Existing Processes</td>
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</tr>
<tr>
<td>3</td>
<td>Overview of ABVM DSS</td>
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FUNCTIONAL DESCRIPTION
FOR
AUTOMATED BEST VALUE MODEL
DECISION SUPPORT SYSTEM

SECTION 1. GENERAL

1.1 Purpose of the Functional Description.

This Functional Description for the Automated Best Value Model (ABVM) Decision Support System (DSS) is written to provide:

a. The system requirements to be satisfied which will serve as a basis for mutual understanding between the user and the developer.

b. Information on performance requirements, preliminary design considerations, and user impacts including fixed and continuing costs.

c. A preliminary basis for development of system tests.

1.2 Project References.

This effort is an extension of the development of the ABVM (formerly the Defense Logistics Agency (DLA) Vendor Rating System or DVRS) under DLA Operations Research Office (DORO) projects DLA-92-P10164, DLA-94-P20249 and DLA-94-P20250. This effort will lead to the development of management information software. The sponsor for this project is the Headquarters, DLA Directorate of Procurement (AQP). This system will be utilized by procurement personnel at DLA's supply centers.

Applicable reference documents include:


1.3 Terms and Abbreviations.

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<td>Automated Best Value Model</td>
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SECTION 2. SYSTEM SUMMARY

2.1 Background.

ABVM has been developed as a means of assisting DLA contracting officers in making awards on the basis of the best overall value to the Government, rather than strictly on the lowest bid price. ABVM is designed to be implemented as part of DPACS at several of DLA's Supply Centers.

The proposed system is a DSS which can be used to provide management reports and to assess the benefits achieved through the implementation of ABVM. It is likely that this DSS will interface primarily with DPACS but may also be required to interface with SAMMS to obtain some of the required data.

2.2 Objectives.

The proposed system will provide the following capabilities:

2.2.1 The ability to generate standard management reports for evaluating the implementation of ABVM. Standard reports may be generated on a periodic basis (e.g., monthly), or may be generated in an on-line session.

2.2.2 An ad hoc query capability for non-standard reports. This capability will allow on-line access to identified data elements for formulation of non-standard queries.

2.3 Existing Methods and Procedures.

There is currently no method for examining DLA's ABVM program. Current management reports were developed prior to the ABVM program, and do not provide appropriate or sufficient information to evaluate the ABVM program. Figure 1 provides an extremely simplified generic overview of the existing procurement information flow utilizing the ABVM program. A purchase request identifies the requirement to obtain materiel, the procurement office prepares a solicitation which is made available to
private contractors, interested vendors submit bids to the procurement office describing the price and terms they are offering, the procurement office considers the bids along with vendors' performance history to evaluate the bids, and an award is made to the bidder representing the best value to the government.

The DPACS is used by DLA's procurement offices to assist in the automation of general procurement processes. Additionally, some of the historical award information within DLA is maintained in SAMMS. Because the ABVM program is in its infancy, evaluating its implementation currently would entail writing special programs to extract appropriate information from DPACS and SAMMS.

The ABVM DSS will provide a new capability for assessing the implementation of the ABVM program. Management will be able to access the ABVM DSS independent of existing systems (unless the system is designed to directly access current production databases). The relationship of the ABVM DSS to existing programs and processes is depicted in Figure 2.

Figure 1 - Overview of Procurement Information Flow

2.4 Proposed Methods and Procedures.

The ABVM DSS will provide a new capability for assessing the implementation of the ABVM program. Management will be able to access the ABVM DSS independent of existing systems (unless the system is designed to directly access current production databases). The relationship of the ABVM DSS to existing programs and processes is depicted in Figure 2.
2.4.1 Summary of Improvements.

The ABVM DSS does not directly support DLA's procurement processes (other than in an informational manner), therefore, it will not in itself directly improve these processes. However, since the ABVM DSS will allow evaluation of ABVM program implementation, it may identify areas where the implementation should be adjusted to yield greater benefits. Insight gained from use of the ABVM DSS may also yield improvements in other areas as well.

2.4.2 Summary of Impacts.

2.4.2.1 User Organizational Impacts.

The DLA user organizations will include AQP and the DLA Supply Centers. These users are not anticipated to have any significant user organizational impacts except, perhaps, for the designation of a user point of contact to serve as liaison with the computer operating center on issues related to this system.

Because this system is intended to utilize currently existing databases, no additional support personnel are envisioned to be required. Since this is not a mission critical system, no contingency operations will be required.
2.4.2.2 User Operational Impacts.

The user's interface with the computer operating center will primarily be with regard to obtaining technical assistance in the development of ad hoc reports, since the user will likely not have sufficient technical expertise to utilize these capabilities of the system without help. Otherwise, this will merely be another system to be supported. Since all data will be obtained from other systems, no additional burden is expected for the user.

2.4.2.3 User Development Impacts.

2.4.2.3.1 Training. Training will be required during development to familiarize the user community with operation of the system.

2.4.2.3.2 Testing. It is assumed that various levels of testing will occur. Users will be required to support testing through initial operating capability.

2.5 Assumptions and Constraints.

2.5.1 Availability of Valid Data.

The value of this DSS is linked to the availability of valid data. For this effort, several DPACS database schemata have been used to identify sources of input data. It has been assumed that valid data is being maintained for all data elements (despite some indications to the contrary). It is beyond the scope of this effort to judge the validity of all data elements being utilized. In those cases where valid data is not available from the specified sources, alternative sources for these data elements must be identified, or the reports must be modified to address this lack of available data.

2.5.2 Operational System Functionality.

The ABVM DSS will not require substantial changes in functionality for the operational systems which provide data to it. Minor changes such as the collection of additional data elements will likely be required.

2.5.3 Evolving Data Requirements.

Data requirements will likely evolve as users become familiar with the capabilities of the system. These changing data requirements may also lead to the requirement for new report formats.

SECTION 3. DETAILED CHARACTERISTICS

3.1 Specific Performance Requirements.

The system will provide two major capabilities: (1) producing pre-defined standard reports through either batch or interactive processing; and (2) processing ad hoc queries in an interactive environment.
3.1.1 Accuracy and Validity.

Accuracy and validity of the proposed data will be dependent upon the data extracted from the source systems (e.g., DPACS, SAMMS).

3.1.2 Timing.

3.1.2.1 Response time from receipt of input data to availability of system products: Collection of data from source systems may take overnight or longer depending on the availability of the source systems. Once the data has been collected, some time may be required for reformatting into an internal database format.

3.1.2.2 Response time to queries and updates: The system will not update data. Response time to queries may vary. Response time to queries for standard reports should be immediate (less than 10 seconds). Response time to ad hoc queries should be less than 5 minutes.

3.1.2.3 Sequential relationship of functions: None.

3.1.2.4 Priorities imposed by types of inputs and changes in modes of operation: The ABVM DSS is anticipated to operate in the same mode.

3.1.2.5 Any deviations from specified response times for peak load periods or contingency operations, as applicable: None.

3.1.3 Capacity Limits.

The ABVM DSS is designed to provide management review of the effects of ABVM implementation policy, therefore, access to the ABVM DSS may be somewhat limited. It appears likely that no more than 20 users at any supply center would require access to the ABVM DSS, although local management may desire wider access to the system.

As the ABVM DSS relies on data from other sources, storage requirements will be determined by the amount of data extracted from these other sources. If the ABVM DSS is designed to directly access these source systems, there would be no additional storage requirements, unless a greater than normal amount of data would require to be archived. It is desired that at least 1 year's worth of data be available for analysis of trends.

3.2 Functional Area System Functions.

3.2.1 Standard Reports.

The ABVM DSS will have the capability to produce management reports using standard formats. It is possible that the system might be designed to allow both interactive and batch requests for generation of these standard reports.
3.2.2 Ad Hoc Queries.

This decision support system will also have the capability to perform ad hoc queries to allow examination of ABVM related data in other than the pre-defined report formats. The ad hoc query subsystem will allow access to all of the data elements utilized in the standard reports. Because of the specialized nature of the ad hoc query subsystem, some technical expertise may be required for its use.

3.3 Inputs and Outputs.

3.3.1 Inputs.

Most information input to the decision support system is expected to be available in existing systems, however, a few new data elements will be required to be collected. Appendix B is a list of data elements ordered by source; it also identifies the reports (described below) in which they are used. The two prime sources of data for the DSS are DPACS and SAMMS although the collection of a few new data elements will be required. Appendix C provides a list of new data element requirements by report. Current data elements which will require archival are identified in Appendix D.

3.3.2 Outputs.

The ABVM DSS will provide output in 11 standard report formats. Desired report formats for each of the 11 standard reports are provided in Appendix E. Outputs from the ad hoc query subsystem may be any logical combination of available input data elements. The pre-defined standard reports are described below:

(Report 1) Summary ABVM Application Statistics - Provides, by Center, an overall summary describing the application of ABVM by Federal Supply Class (FSC).

(Report 2) Monthly ABVM Component Score Statistics - Provides a breakout of ABVM component scores and Center average scores for the population of bids, awards, and vendors.

(Report 3) Quality Vendor Program Information - Provides overview statistics for vendors that meet Quality Vendor Program criteria.

(Report 4) Center ABVM Implementation "Benefits" Indicators - Provides an overview of changes to key indicators before and after implementation of the ABVM program. This report will serve as the baseline and primary source for validation of ABVM benefits.

(Report 5) Challenge Statistics - Provides an overview of the processing of vendor challenges to negative line information.
(Report 6) ABVM Buyer Performance - Provides a plot describing buyer trends in making ABVM awards where each award is represented by a point. Points closer to the origin (minimal price differential and performance loss) are typically indicative of "best" buys, although other circumstances may prevail.

(Report 7) ABVM Program Award Performance - Provides visibility of performance of key indicators for awards made under the ABVM program and for awards made without ABVM.

(Report 8) Center ABVM Statistics - Provides an overview of ABVM award statistics with respect to socio-economic status of awardees.

(Report 9) Center ABVM Statistics by Solicitation Consideration Factors - Provides an overview of ABVM award statistics with respect to solicitation consideration factors (ABVM weights) and socio-economic status of awardees.

(Report 10) ABVM Score Trends - Provides graphical presentation of ABVM scoring trends for the population of vendors by Center.

(Report 11) Near-term deliveries - ABVM Differential Awards - Lists individual ABVM differential contracts with anticipated deliveries so that they may be more closely monitored.

3.4 Database/Data Bank Characteristics.

Appendix B provides a listing of data elements used in this system.

3.5 Failure Contingencies.

There are no failure contingencies for the ABVM DSS because it is not a mission critical system. Should the ABVM DSS fail, it can be "refreshed" at the earliest convenience utilizing one source databases.

SECTION 4. DESIGN CONSIDERATIONS

4.1 System Description.

Figure 3 provides an overview of the ABVM DSS and its interface to existing systems.
4.2 System Functions.

Refer to Appendix F for a description of the computations required to produce the standard ABVM DSS reports.

4.3 Flexibility.

This system is a decision support system allowing management to evaluate the implementation of a new program - namely ABVM. As such, it is difficult to predict all of the potential ways that examination of ABVM implementation will be desired. Therefore, the design of this system should be sufficiently flexible to allow for changing management requirements such as the incorporation of additional standard reports. As future reports may utilize different data elements, the design should be able to accommodate the use of these additional data elements as well.

4.4 System Data.

There are no known special design requirements related to system data. As stated previously, this system is dependent upon data residing in several other existing databases. Depending on the environment chosen for development and operation of this system, it may be more practical to create a separate database for this system with periodic updates from the other databases. However, other considerations may dictate a system design which utilizes the existing databases more directly.
SECTION 5. ENVIRONMENT

To be determined (TBD). [Sections 5 through 8 should be written by system development personnel as they require specific technical expertise.]

SECTION 6. SECURITY

TBD

SECTION 7. SYSTEM DEVELOPMENT PLAN

TBD

SECTION 8. COST CONSIDERATIONS

TBD
SECTION 1 - STUDY DESCRIPTION

1.1 PROBLEM STATEMENT. DLA is implementing an automated system to assist buyers in evaluating historical quality and delivery performance in making awards. There exists a need to examine/monitor the effectiveness of this system.

1.2 OBJECTIVES.

1.2.1 Determine appropriate management evaluation reporting requirements for validation of ABVM benefits.
1.2.2 Develop prototype reporting system.

1.3 BACKGROUND. Project DLA-XX-P20250 is a follow-on to project DLA-92-P10164.

1.4 SCOPE.

1.4.1 The ABVM prototype will not be altered.
1.4.2 This project is limited to the development of a functional description for a decision support system and a prototype of this system.
1.4.2 Only data elements presently available within DLA standard systems will be utilized.

1.5 MAJOR ASSUMPTIONS AND CONSTRAINTS.

1.5.1 Sub-indicators used within ABVM are valid measures of effectiveness.
1.5.2 Data required for evaluation of ABVM is available.

SECTION 2 - STUDY APPROACH

2.1 ANALYTICAL TECHNIQUES APPLIED. DLA-DORO will use applicable descriptive and inferential analysis methods in the design of the ABVM Decision Support System.

2.2 SPECIAL REQUIREMENTS.

2.2.1 Documentation provided by DORO as the functional description of the prototype decision support system will not fulfill all requirements of DoD Instruction 7935.1 AIS Documentation Standards. Further documentation may be required by a central design activity at the time of implementation.
2.2.2 The DLA hardware centers will provide advisors to consult on center requirements for management reporting related to ABVM.
2.2.3 The prototype decision support system will be off-line from the current DLA standardized systems such as SAMMS or DPACS, although it will utilize data generated from these systems.

2.2.4 Implementation of this prototype decision support system will be accomplished in a follow-on effort.

SECTION 3 - DELIVERABLES

3.1 Monthly progress reports.
3.2 Prototype reports.
3.3 Final briefing.
3.4 Functional description for decision support system.

SECTION 4 - MILESTONES

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SECTION 5 - STUDY MANAGEMENT

5.1 SPONSORING ORGANIZATION POCs.

DLA-PPR Contact: Ms. Catherine Heretick
Phone: (DSN) 284-6431
FAX: (DSN) 284-0310

DLA-PS Contact: Mr. Phil Church
Phone: (DSN) 284-7866
FAX: (DSN) 284-0310
5.2 Performing Organization POCs.

DLA-LO Contact: Mr. Jim Russell  
Senior Study Director,  
Acquisition Management  
Phone: (DSN) 284-7227  
FAX: (DSN) 284-3831

DLA-DORO Contact: Mr. Kurt Schwarz  
Lead Analyst  
Phone: (DSN) 695-5262  
FAX: (DSN) 695-5319

5.3 Other Organization POCs.

DSAC-OF Contact: Mr. Bill Eble  
Phone: (DSN) 850-9707
ANALYTIC SERVICES AGREEMENT
AUTOMATED BEST VALUE MODEL (ABVM)
DECISION SUPPORT SYSTEM
DLA-XX-P20250

CHRISTINE L. GALLO
Executive Director
(Plans & Policy Integration)

3/9/93
Date

BILLY B. WILLIAMS
Executive Director
(Procurement)

3/19/93
Date
APPENDIX B
LIST OF DATA ELEMENTS ORDERED BY SOURCE
Appendix B - List of Data Elements Ordered By Source

+------------------------------------------------------------------------+
| listing notes:                                                        |
| * denotes data element which has previously been identified as new   |
| and already planned for incorporation into existing database         |
| ** denotes new data element requirement                               |
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NEW DATA ELEMENT REQUIREMENTS
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<td>cont_line**</td>
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<td>3</td>
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<tr>
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<td>16</td>
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<td>1,3,6,8</td>
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<tr>
<td>quality_score**</td>
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<tr>
<td>dpacs-dvrs.vr_crate</td>
<td>Date</td>
<td></td>
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<td>2</td>
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<td>3</td>
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<td></td>
<td></td>
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</tr>
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<td>dpacs-dvrs.vrfcrate</td>
<td>Date</td>
<td></td>
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</tr>
<tr>
<td>score_date**</td>
<td></td>
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<td></td>
</tr>
<tr>
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<td>16</td>
<td>2</td>
<td>1,3,7,8,11</td>
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<td></td>
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<td>Character</td>
<td>1</td>
<td></td>
<td>1,2,3,6</td>
</tr>
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<td></td>
<td></td>
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<td>Character</td>
<td>1</td>
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<td>3</td>
</tr>
<tr>
<td>manufacturer** (type_enterprise)</td>
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<td>Character</td>
<td>1</td>
<td></td>
<td>3</td>
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<td>quality_vendor_pgm**</td>
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</tr>
</tbody>
</table>
New data element requirements (by report)

1. Summary ABVM Application Statistics
   dpacs.soldata.abvm_clause
   dpacs-arch.bidven.extend_bid_price
   dpacs.dwarfdb.differential

2. Monthly ABVM Component Score Statistics
   dpacs.soldata.abvm_clause
   dpacs-dvrs.vrfcrate.score_date
   dpacs-dvrs.vr_crate.score_date
   dpacs-dvrs.vrf_rate.score_date

3. Quality Vendor Program Information
   dpacs.soldata.abvm_clause
   dpacs-arch.bidven.extend_bid_price
   dpacs-arch.bidven.delivery_score
   dpacs-arch.bidven.quality_score
   dpacs.dwarfdb.differential
   dpacs.vendor.quality_vendor_pgm
   dpacs.vendor.manufacturer (type enterprise)
   dpacs-dvrs.vrfcrate.critical_quality_deficiencies
   cpacs-dvrs.vrfcrate.pct_on_time_clins

4. Center ABVM Implementation "Benefits" Indicators
   dpacs-dvrs.vrf_rate.score_date

5. Challenge Statistics - none

6. ABVM Buyer Performance
   dpacs.soldata.abvm_clause
   dpacs-arch.bidven.extend_bid_price

7. ABVM Program Award Performance
   dpacs.dwarfdb.differential
   DGSC.P.DVRS101 -- cont_line (23)

8. Center ABVM Statistics
   dpacs-arch.bidven.extend_bid_price
   dpacs.dwarfdb.differential

9. Center ABVM Statistics by Solicitation Consideration Factors - none

10. ABVM Score Trends
    dpacs-dvrs.vrf_rate.score_date

C-3
11. Near-term Deliveries - ABVM Differential Awards

dpacs.dwarfdb.differential
APPENDIX D
CURRENT DATA ELEMENTS REQUIRING ARCHIVAL
Appendix D - Current Data Elements Requiring Archival

DGSC.P.DVRS101
- cage
- cont_line**
- del_date
- fsc
- ship_date

DGSC.P.DVRS701
- cage
- piin_clin
- caus_cd
- clos_dt
- test_dtd
- disc_cd
- doc_typ
- fsc
- no_crit
- no_maj
- no_min
- no_tested

dpacs.dwarfdb
- abvm_clause*
- abvm_dlvy_qual*
- abvm_pric_perf*
- abvm_qual_dlvy*
- buy_number
- cage_code
- contract_no
- differential**
- nsn
- total_cost_price

dpacs.soldata
- abvm_clause**
- buy_no

dpacs-dvrs.vrf_rate
- fsc_code
- overall_score
- score_date**
APPENDIX E
STANDARD REPORT FORMATS
Acronyms/Abbreviations Used in Report Formats

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABVM</td>
<td>Automated Best Value Model</td>
</tr>
<tr>
<td>CAGE</td>
<td>Contractor and Government Entity</td>
</tr>
<tr>
<td>CDD</td>
<td>Contract Delivery Date</td>
</tr>
<tr>
<td>CLIN</td>
<td>Contract Line Item Number</td>
</tr>
<tr>
<td>DSC</td>
<td>DLA Supply Center</td>
</tr>
<tr>
<td>FSC</td>
<td>Federal Supply Class</td>
</tr>
<tr>
<td>LDV</td>
<td>Low Dollar Value</td>
</tr>
<tr>
<td>NSN</td>
<td>National Stock Number</td>
</tr>
<tr>
<td>SDB</td>
<td>Small, Disadvantaged Business</td>
</tr>
</tbody>
</table>
### 1. Summary ABVM Application Statistics

<table>
<thead>
<tr>
<th>Federal Supply Class</th>
<th>Number of Solicitations</th>
<th>Percent ABVM Clause</th>
<th>Number of Awards</th>
<th>Percent with Differential</th>
<th>Average Differential ($$)</th>
<th>Average Differential (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>342</td>
<td>95.4</td>
<td>375</td>
<td>15.2</td>
<td>$512</td>
<td>24.30%</td>
</tr>
<tr>
<td>1510</td>
<td>960</td>
<td>10.3</td>
<td>1088</td>
<td>12.5</td>
<td>$32</td>
<td>4.50%</td>
</tr>
<tr>
<td>DSC Total</td>
<td>1302</td>
<td>32.7</td>
<td>1463</td>
<td>13.2</td>
<td>$400</td>
<td>19.69%</td>
</tr>
</tbody>
</table>

Sort = FSC
2. Monthly ABVM Component Score Statistics

<table>
<thead>
<tr>
<th>FSC = XXXX</th>
<th>ABVM score</th>
<th>Non-ABVM score</th>
<th>Total score</th>
<th>ABVM score</th>
<th>Non-ABVM score</th>
<th>Total score</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>On-time delivery</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* awarded average</td>
<td>95</td>
<td>81</td>
<td>88</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>* bid average</td>
<td>83</td>
<td>82</td>
<td>83</td>
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<tr>
<td>* FSC average</td>
<td>85</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* DSC average</td>
<td></td>
<td>78</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Days late</strong></td>
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<td></td>
<td></td>
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<tr>
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<td>95</td>
<td>96</td>
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<td>92</td>
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<tr>
<td>* FSC average</td>
<td>90</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* DSC average</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Product deficiencies</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* awarded average</td>
<td>89</td>
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<tr>
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<td></td>
<td>78</td>
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</tr>
<tr>
<td><strong>Packaging deficiencies</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
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<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>* DSC average</td>
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<td>78</td>
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<tr>
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<td>70</td>
<td>73</td>
<td></td>
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<td></td>
</tr>
<tr>
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</tr>
<tr>
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<td>76</td>
<td>83</td>
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<td>74</td>
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</tr>
<tr>
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<td>83</td>
<td>87</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>* DSC average</td>
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Sort = FSC
3. Quality Vendor Program Information

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<tr>
<th>CAGE</th>
<th>Vendor Name</th>
<th>FSC</th>
<th>No. of Contracts</th>
<th>No. CLINs awarded</th>
<th>Dollar value of awards</th>
<th>Business size</th>
<th>Socio-economic status</th>
<th>No. ABVM overall</th>
<th>ABVM Quality Score</th>
<th>Critical quality deficiencies</th>
<th>ABVM Delivery Score</th>
<th>CLINs Manuf on-time uf?</th>
</tr>
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<tbody>
<tr>
<td>ABCDE</td>
<td>Fiberbrain Corp.</td>
<td>5290</td>
<td>29</td>
<td>53</td>
<td>$30,157</td>
<td>small</td>
<td>5</td>
<td>98.2</td>
<td>100.0</td>
<td>N</td>
<td>96.4</td>
<td>87.3</td>
</tr>
<tr>
<td>FGHIJ</td>
<td>Mega-industries</td>
<td>all</td>
<td>706</td>
<td>1022</td>
<td>$572,091</td>
<td>large</td>
<td>34</td>
<td>99.1</td>
<td>98.6</td>
<td>N</td>
<td>100.0</td>
<td>N</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5290</td>
<td>415</td>
<td>672</td>
<td>$457,091</td>
<td></td>
<td>14</td>
<td>99.3</td>
<td>98.6</td>
<td>N</td>
<td>100.0</td>
<td>N</td>
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<td></td>
<td></td>
<td>6090</td>
<td>291</td>
<td>350</td>
<td>$115,000</td>
<td></td>
<td>20</td>
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<td>98.5</td>
<td>N</td>
<td>100.0</td>
<td>N</td>
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</table>

Sort = CAGE, FSC
4. Center ABVM Implementation "Benefits" Indicators

\[ FSC = XXXX \]

<table>
<thead>
<tr>
<th></th>
<th>Pre-ABVM</th>
<th>Post-ABVM</th>
<th>Percent change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delinquency Rate</td>
<td>27.3</td>
<td>24.7</td>
<td>-9.52%</td>
</tr>
<tr>
<td>Product Nonconformance Rate</td>
<td>6.3</td>
<td>5.3</td>
<td>-15.87%</td>
</tr>
<tr>
<td>Packaging Nonconform Rate</td>
<td>15.3</td>
<td>13.1</td>
<td>-14.38%</td>
</tr>
<tr>
<td>% Terminations (vendor)</td>
<td>1.2</td>
<td>1.1</td>
<td>-8.33%</td>
</tr>
<tr>
<td>Average Days Delinquent</td>
<td>46.1</td>
<td>44.3</td>
<td>-3.90%</td>
</tr>
<tr>
<td>ABVM Scores</td>
<td>86.3</td>
<td>87.1</td>
<td>0.93%</td>
</tr>
<tr>
<td>No. of participating vendors</td>
<td>527</td>
<td>460</td>
<td>-12.71%</td>
</tr>
<tr>
<td>% Awards to &quot;New&quot; Vendors</td>
<td>12.8</td>
<td>12</td>
<td>-6.25%</td>
</tr>
<tr>
<td>&quot;new&quot; small</td>
<td>1.5</td>
<td>0.8</td>
<td>-46.67%</td>
</tr>
<tr>
<td>&quot;new&quot; large</td>
<td>5.3</td>
<td>6.2</td>
<td>16.98%</td>
</tr>
<tr>
<td>&quot;new&quot; SDB</td>
<td>3.9</td>
<td>2.8</td>
<td>-28.21%</td>
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<tr>
<td>&quot;new&quot; woman-owned</td>
<td>2.1</td>
<td>2.2</td>
<td>4.76%</td>
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<tr>
<td>Procurement Administrative Lead Time</td>
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<td>47.5</td>
<td>9.95%</td>
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<tr>
<td>% Awards to Small Business</td>
<td>13.5</td>
<td>12.9</td>
<td>-4.44%</td>
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Sort = FSC
5. Challenge Statistics

FSC = XXXX

# Challenges:
Received
Approved
Denied
Pending
Database Corrections

Average # Days Required:
Approval
Denial
Database Correction

Type of Change:
Contract Mod Number
CAGE
NSN
Contract Delivery Date
Ship Date
Receipt Date
Variance Code
Reason for Delay Code
Termination Code
Project Action Code
Quantity Due
Quantity Received
Quantity Shipped

Sort = FSC
### 7. ABVM Program Award Performance

<table>
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<tr>
<th>FSC = XXXX</th>
<th><strong>ABVM</strong> Differential</th>
<th><strong>ABVM No</strong> Differential</th>
<th><strong>Non-ABVM</strong></th>
</tr>
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<tbody>
<tr>
<td>Delinquency Rate</td>
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<td>3.5</td>
<td>5.1</td>
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<tr>
<td>Average Days Delinquent</td>
<td>11.2</td>
<td>26.9</td>
<td>46.3</td>
</tr>
<tr>
<td>Product Deficiency Rate</td>
<td>2.2</td>
<td>4.1</td>
<td>4.5</td>
</tr>
<tr>
<td>Packaging Deficiency Rate</td>
<td>1.2</td>
<td>8.3</td>
<td>8.5</td>
</tr>
<tr>
<td>Lab Test Deficiency Rate</td>
<td>9.8</td>
<td>16.1</td>
<td>15.6</td>
</tr>
</tbody>
</table>

Sort = FSC
8. Center ABVM Statistics

FSC = XXXX

<table>
<thead>
<tr>
<th>Awards</th>
<th>Dollar Value of Awds</th>
<th>Ave. Difference Between Low Offer/Awardee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total No.</td>
<td>% LDV</td>
<td>Total $</td>
</tr>
</tbody>
</table>

**Small Business Awards**
- Low offer
- Low offer/highest score
- Low offer/not highest score
- Other than low offer
- New offer/no score
- New offer/not lowest price

**Small Business Set-Asides**
- Low offer
- Low offer/highest score
- Low offer/not highest score
- Other than low offer
- New offer/no score
- New offer/not lowest price

**Small/SDB Set-Asides**
- Low offer
- Low offer/highest score
- Low offer/not highest score
- Other than low offer
- New offer/no score
- New offer/not lowest price

**Large Business**
- Low offer
- Low offer/highest score
- Low offer/not highest score
- Other than low offer
- New offer/no score
- New offer/not lowest price

Sort = FSC
9. Center ABVM Statistics by Solicitation Consideration Factors

<table>
<thead>
<tr>
<th></th>
<th>FSC = XXXX</th>
<th>Total Proc Actions</th>
<th>Small Business</th>
<th>Small Set-Aside</th>
<th>Small/SDB Set-Aside</th>
<th>Large Business</th>
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11. Near-term Deliveries - ABVM Differential Awards

Date: 1 Feb 93  
FSC: XXXX

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Sort = CAGE, CDD, Contract #, CLIN
APPENDIX F
PSEUDOCODE COMPUTATIONS TO PRODUCE REPORTS
Standard Report Computations -

This appendix describes the computations required to produce the standard reports described in this functional description. The computations are described in a form of pseudocode. The data elements are generally described by the full data element name in the format system.table.element. Local variables used to store results of computations are generally of the simple form variable, except in those cases where additional hierarchy or structure is required to more easily describe the results.
1. Summary ABVM Application Statistics

Computations:

* first, compute differential for ABVM awards

for each award where dpacs.dwarfdb.abvm_clause='y':
  low_bid = min(dpacs-arch.bidven.extend_bid_price)
  differential = dpacs.dwarfdb.total_cost_price - low_bid
  differential_percent = differential / dpacs.dwarfdb.total_cost_price

for each FSC:
  sum number_solicitations
  sum number_abvm_solicitations
  percent_abvm = number_abvm_solicitations / number_solicitations
  sum number_differential (awards where differential > 0)
  percent_differential_awards = number_differential / number_awards
  total_differential = sum(differential)
  total_differential_percent = sum(differential_percent)
  average_differential = total_differential / number_differential
  average_differential_percent = total_differential_percent / number_differential

for all FSC's:
  sum/average over all FSC's

2. Monthly ABVM Component Score Statistics

Computations:

by FSC
for each buy, identify type (whether an ABVM solicitation)
for each type of solicitation (ABVM or non-ABVM) & total
  identify bidding vendors (dpacs-arch.bidven.cage_code)
  sum number_vendors_bidding
  bid_score. [component] = sum(dpacs-dvrs.vrfcrate.[component]) / number_vendors_bidding
  (where [component] is on_time_pct, avg_days_late, product_deficits, package_deficits, labtest_deficits, delivery_score, quality_score, overall_score)

  identify winning vendor (dpacs.dwarfdb.cage_code)

for each FSC
  sum number_solicitations
  sum number_abvm_solicitations
  fsc_bid_score.[component] = sum(bid_score.[component]) / number_solicitations
  fsc-abvm_bid_score.[component] = appropriate sum(bid_score.[component]) / number_abvm_solicitations
  fsc-non_bid_score.[component] = appropriate sum(bid_score.[component]) / (number_solicitations - number_abvm_solicitations)
  fsc_award_score.[component] = sum(dpacs-dvrs.vrfcrate.[component]) / number_vendors_bidding
  fsc-abvm_award_score.[component] = appropriate sum
  fsc-non_award_score.[component] = appropriate sum
  fsc_population.[component] = dpacs-dvrs.vrf_rate.[component]
  center_population.[component] = sum(dpacs-dvrs.vrf_crate.[component]) / for each CAGE / number_cages

3. Quality Vendor Program Information

Computations:

for each award where dpacs.dwarfdb.abvm_clause='y':
  low_bid = min(dpacs-arch.bidven.extend_bid_price)
  differential = dpacs.dwarfdb.total_cost_price - low_bid

for each CAGE, sum number_awards (where dpacs.dwarfdb.cage_code = CAGE)
  sum number_differential (awards where differential > 0)
  award_value = sum(dpacs.dwarfdb.total_cost_price)
4. Center ABVM Implementation "Benefits" Indicators

Computations:

for each PSC and time period (pre- and post-ABVM)

\[
\text{days late} = \text{dvrso10_ship_date} - \text{dvrso10_del_date}
\]

if \( \text{days late} > 0 \) then \( \text{late}\) = true

if \( \text{days late} < 0 \) then set \( \text{days late} = 0 \)

sum number awards

sum number late awards (where \( \text{days late} > 0 \))

total day late = sum(days late)

delay rate = number late awards / number awards

delay days = total days late / number late awards

lab_defic = no_crit + no_maj + no_min

total tested = sum(no_tested)

lab_defic = sum(lab_defic)

lab_rate = total lab_defic / total tested

sum number prod_defic (where test_dtd = '0' and not a packaging deficiency (see below))

sum number pkg_defic (where test_dtd = '0' and doc_typ=(2 or 4 thru 9) and disc_cd=(90 thru P7 or T4 or T6))

prod_rate = number prod_defic / number awards

number vendors = unique sum (dpacs-arch.bidven.cage_code)

number small_eqds = sum awards where (dpacs-dvrsOOpd.cage_code = dpacs-arch.bidven.cage_code -> dpacs-arch.bidven.business_size = small)

pct small_eqds = number small_eqds / number awards

number new_eqds = sum awards where (dpacs-dvrsOOpq.cage_code = dpacs-arch.bidven.cage_code -> dpacs-arch.bidven.dvrs_rating = 0.0)

pct new_eqds = number new_eqds / number awards

Notes:

* This report should be generated by PSC.
* Must ensure that only PSC's with "clean" data are examined, to ensure that any changes are not attributable merely to the sanitization of data.
* Must still identify criteria to be used to identify "regular" vendors.
* Might use lack of an ABVM score to identify "new" vendors.

5. Challenge Statistics

Computations:

by PSC:

number_status = sum of records in quality files (where challenge_recv_date > rpt_start_date)

number_status_appr = sum of records in dvrsoOpq & dvrsoOcq (where challenge_decen_date > rpt_start_date and denial_code = 'y')

number_status_denied = sum of records in dvrsoOpq & dvrsoOcq (where challenge_decen_date > rpt_start_date and denial_code = 'y')

number_status_corr = sum of records in dvrsoOcq (where challenge_decen_date > rpt_start_date)

number_status_revr = sum of records in delivery files (where challenge_recv_date > rpt_start_date)

number_status_appr = sum of records in dvrsoOpd & dvrsoOcd (where challenge_decen_date > rpt_start_date and denial_code = 'y')

number_status_denied = sum of records in dvrsoOcq (where challenge_decen_date > rpt_start_date and denial_code = 'y')

number_status_revr = sum of records in dvrsoOpq (where challenge_decen_date > rpt_start_date)

for denial_code = 'y'

Rev_denial_days = dvrsoOpq.challenge_decen_date - dvrsoOcd.challenge_recv_date (where challenge_decen_date > rpt_start_date)

for denial_code <> 'y'

Rev_approval_days = (dvrsoOpd or dvrsoOcd).challenge_decen_date - (dvrsoOpd or dvrsoOcd).challenge_recv_date (where challenge_decen_date > rpt_start_date)

Rev_correction_days = dvrsoOpq.challenge_decen_date - dvrsoOcq.challenge_recv_date (where challenge_decen_date > rpt_start_date)

Rev_correction_days = dvrsoOcq.challenge_decen_date - dvrsoOcq.challenge_recv_date (where challenge_decen_date > rpt_start_date)

average_rev_denial_days = sum(rev_denial_days) / number_rev_denied

average_rev_approval_days = sum(rev_approval_days) / number_rev_appr

average_rev_correction_days = sum(rev_correction_days) / number_rev_corr

in the file dvrstal, count occurrences of non-blank fields

number_mod = sum(non-blank contract_mod_number)

number_dsc = sum(non-blank cage)

number_num = sum (non-blank num)

number_dded = sum (non-blank contract_dded)

number_ship = sum(non-blank ship_date)

number_rcvr = sum(non-blank recvr_date)

number_var = sum(non-blank variance_code)

number_ren = sum(non-blank reason_delay_code)

number_term = sum(non-blank term_code)

number_project = sum(non-blank project_action_code)

number_qc = sum(non-blank qty_due)

number_qc_rcvr = sum (non-blank qty_recpt)

number_qc_ship = sum (non-blank qty_ship)
6. **ABVM Buyer Performance**

Computations:

for each PSC
for each award with dpacs.dwarfdb.abvm_clause = 'y'
  low_bid = min(dpacs.arch.bidven.extend_bid_price)
  differential = dpacs.dwarfdb.total_cost_price - low_bid
  hi_perf = max(dpacs.arch.bidven.drves_rating)
  perf_loss = hi_perf - dpacs.arch.bidven.drves_rating(where dpacs.arch.bidven.cage_code = dpacs.dwarfdb.cage_code)
  perf_loss_percent = perf_loss / hi_perf

plot differential_percent versus perf_loss_percent

7. **ABVM Program Award Performance**

Computations:

for each PSC
  three categories identified by
  ABVM differential: dpacs.dwarfdb.abvm_clause = 'y' and dpacs.dwarfdb.differential > 0
  ABVM no-differential: dpacs.dwarfdb.abvm_clause = 'y' and dpacs.dwarfdb.differential = 0
  Non-ABVM: dpacs.dwarfdb.abvm_clause = 'n'

match dvrs101.cont_line to dpacs.dwarfdb.contract_no
for each category:
  days_late = dvrs101.ship_date - dvrs101.del_date
  sum number_awards
  sum number_late_awards (where days_late > 0)
  total_days_late = sum(days_late)
  delinq_days = total_days_late / number_late_awards

match dvrs701.pin_dlin to dpacs.dwarfdb.contract_no
for each category:
  lab_defic = sum(lab_defic)
  total_defic = sum(lab_defic)
  lab_rate = total_defic / total_tested
  sum number_prod_defic (where test_typ = ' ' and not a packaging deficiency (see below))
  sum number_pkg_defic (where test_dtd = '2 or 4 thru 9' and disc_cd = (0 thru F7 or 74 or 76))
  sum number_awards
  prod_rate = number_prod_defic / number_awards
  pkg_rate = number_pkg_defic / number_awards

Notes:
* Must match ABVM award information to performance information.

8. **Center ABVM Statistics**

Computations:

for start_date <= dpacs.arch.bidven.award_date <= end_date
for each socio-economic category

{ for each award where dpacs.dwarfdb.abvm_clause = 'y':
  low_bid = min(dpacs.arch.bidven.extend_bid_price)
  differential = dpacs.dwarfdb.total_cost_price - low_bid
  differential_percent = differential / dpacs.dwarfdb.total_cost_price
  score_delta = dpacs.arch.bidven.drves_rating(dpacs.dwarfdb.cage_code) - dpacs.arch.bidven.drves_rating(low_bid(dpacs.arch.bidven.cage_code))

  sum number_awards
  sum number_low_dollar_value (where dpacs.dwarfdb.total_cost_price < LDV threshold)
  percent_number_low_dollar = number_low_dollar_value / number_awards
  total_dollar_awards = sum(dpacs.dwarfdb.total_cost_price)
  value_low_dollar_value = sum(dpacs.dwarfdb.total_cost_price < LDV threshold)
  percent_value_low_dollar = value_low_dollar_value / total_dollar_awards
  total differential = sum(differential)
  ave_diff = total_differential / number_awards
  ave_diff_pct = total_differential / total_dollar_awards
  total score_delta = sum(score_delta)
  ave_score_delta = total_score_delta / number_awards
}
9. Center ABVM Statistics by Solicitation Consideration Factors

Computations:

establish reporting period (start_date, end_date)
for start_date <= dpacs.arch.bidven.award_date <= end_date

determine consideration factor category for each award:

if (dpacs.dwarfdb.abvm_clause='n') then
  price_only = true.
else if (dpacs.dwarfdb.abvm_clause='y' and dpacs.dwarfdb.abvm_per_price='X') then
  price_equl_perf = .true.
else if (dpacs.dwarfdb.abvm_clause='y' and dpacs.dwarfdb.abvm_per_price='Y') then
  price_grtr_perf = .true.
else if (dpacs.dwarfdb.abvm_clause='y' and dpacs.dwarfdb.abvm_per_price='Z') then
  price_less_perf = .true.

if (dpacs.bidven.divy_weight = dpacs.bidven.qual_weight) then
  delv_equl_qual = .true.
else if (dpacs.bidven.divy_weight > dpacs.bidven.qual_weight) then
  delv_grtr_qual = .true.
else if (dpacs.bidven.divy_weight < dpacs.bidven.qual_weight) then
  delv_less_qual = .true.
endif
endif

for each consideration factor category
{
for each socio-economic category
  sum number_awards
  total_award_dollars = sum(dpacs.dwarfdb.total_cost_price)
}

10. ABVM Score Trends

Computations:

Plot dpacs-dvrs.vrf_rate.overall_score versus time (dpacs-dvrs.vrf_rate.score_date).

Notes:
  * Must determine how to aggregate scores across PSC's. May require additional computation of raw data.

11. Near-term Deliveries - ABVM Differential Awards

Computations:

for each PSC,
  if (dpacs.dwarfdb.abvm_clause = 'y') then
    if (dpacs.dwarfdb.differential = 0.0) and (dpacs.dwarfdb.cage_code = dpacs.opencon.cage_code) then
      provide listing sorted by
        dpacs.opencon.cage_code
        dpacs.opencon.delivery_date
        dpacs.opencon.contract_no
        dpacs.opencon.clin
    endif
  endif
endif
APPENDIX G
PARTIAL PROTOTYPE OF ABVM DSS IMPLEMENTED IN DBASE IV

1 - Data Dictionary
2 - Program Source Code Listing
3 - Sample Screens
Database Structure Summary

21 databases in the system
DWARDB.DBF
BITVEN.DBF
VRFCRTE.DBF
AWDINFO.DBF
VR-CRTE.DBF
VR-F-RATE.DBF
VENDOR.DBF
SOLDATA.DBF
WORKPERF.DBF
DVRS101.DBF
DVRS701.DBF
DVRS00UD.DBF
DVRS00QU.DBF
DVRS00PD.DBF
DVRS00PQ.DBF
DVRS00DD.DBF
DVRS00CQ.DBF
DVRS00CD.DBF
DVRS0C1.DBF
MUDKEY.DBF
OPENCON.DBF

Structure for database : DWARDB.DBF
Number of data records : 5
Last updated : 08/12/93 at 14:36

Field Field name Type Width Dec Start End
1 ABVM_CLAUS Character 1 1 1
2 ABVM_D_Q Character 1 2 2
3 ABVM_P_P Character 1 3 3
4 ABVM_Q_D Character 1 4 4
5 BUY_NO Character 13 5 17
6 CAGE_CODE Character 5 18 22
7 CONTRACTN Character 13 23 35
8 DIFFERENTL Numeric 16 2 36 51
9 NSN Character 15 52 66
10 TOTAL_COST Numeric 16 2 67 82

** Total ** 83

This database appears to be associated with index file/tag(s):
: C:\DATA\DBASE\AWDBUY.NDX (buy_no)
: C:\DATA\DBASE\AWDNSN.NDX (nsn)
: C:\DATA\DBASE\AWDCAGE.NDX (cage_code+substr(nsn,1,4))
: C:\DATA\DBASE\AWDCONT.NDX (substr(nsn,1,4)+contract_n)

Used by: RPT-1.PRG
: RPT-2.PRG
: RPT-4.PRG
: RPT-5.PRG
: RPT-8.PRG
: RPT-9.PRG
: RPT-11.PRG
: FSC_STATS (procedure in C:\DATA\DBASE\RPT-1.PRG)
: SETUP_FILS (procedure in C:\DATA\DBASE\RPT-3.PRG)
: SETP_FILS (procedure in C:\DATA\DBASE\RPT-7.PRG)
Structure for database: BIDVEN.DBF
Number of data records: 15
Last updated: 07/28/93 at 10:04

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** Total ** 83

This database appears to be associated with index file/tag(s):
- C:\DATA\DBASE\BIDBUY.NDX (buy_no)

Used by: RPT-1.PRG
- RPT-4.PRG
- RPT-6.PRG
- RPT-8.PRG
- RPT-9.PRG
- COMP_BIDS (procedure in C:\DATA\DBASE\RPT-2.PRG)
- OPEN_OTHR (procedure in C:\DATA\DBASE\RPT-2.PRG)
- GET_OTHR (procedure in C:\DATA\DBASE\RPT-3.PRG)

Structure for database: VRFCRATE.DBF
Number of data records: 11
Last updated: 08/12/93 at 7:14

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<td>55</td>
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** Total ** 69

This database appears to be associated with index file/tag(s):
- C:\DATA\DBASE\VRFCAGE.NDX (cage_code+fsc_code)

Used by: RPT-2.PRG
- SETUP_FILS (procedure in C:\DATA\DBASE\RPT-3.PRG)
### Structure for database: AWDINFO.DBF

Number of data records: 5  
Last updated: 08/12/93 at 14:37

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<th>End</th>
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<td>34</td>
<td>49</td>
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**Total**: 66

This database appears to be associated with index file/tag(s):  
- C:\DATA\DBASE\AWDKEY.NDX (buy_no)  
- C:\DATA\DBASE\AWDCAGE.NDX (cage_code+substr(nsn,1,4))

Used by: RPT-2.PRG

---

### Structure for database: VRF-RATE.DBF

Number of data records: 10  
Last updated: 08/03/93 at 14:58

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<td>2</td>
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<td>Character</td>
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<td>14</td>
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<td>3</td>
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<td>1</td>
<td>6</td>
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<td>20</td>
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**Total**: 53

This database appears to be associated with index file/tag(s):  
- C:\DATA\DBASE\VRF-RATE.NDX (fsc_code+dtoc(score_date))

Used by: RPT-4.PRG  
- RPT-10.PRG  
- COMP_BIDS (procedure in C:\DATA\DBASE\RPT-2.PRG)

---

### Structure for database: VR-CRATE.DBF

Number of data records: 7  
Last updated: 08/11/93 at 13:44

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<td>Numeric</td>
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<tr>
<td>2</td>
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<td></td>
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<td>16</td>
</tr>
<tr>
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<td>DELIV_SCOR</td>
<td>Numeric</td>
<td>5</td>
<td>1</td>
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<tr>
<td>5</td>
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</tr>
<tr>
<td>6</td>
<td>ON_TIME_PC</td>
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<td>1</td>
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<td>31</td>
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<td>Date</td>
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</tbody>
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**Total**: 60

This database appears to be associated with index file/tag(s):  
- C:\DATA\DBASE\VR-CAGE.NDX (cage_code)

Used by: OPEN_OTHR (procedure in C:\DATA\DBASE\RPT-2.PRG)  
- SETUP_FILS (procedure in C:\DATA\DBASE\RPT-3.PRG)
### Structure for database : VENDOR.DBF

**Number of data records :** 7  
**Last updated :** 08/11/93 at 13:02

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<td>16</td>
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**Total :** 50

This database appears to be associated with index file/tag(s):  
C:\DATA\DBASE\VENCAGE.NDX (cage_code)

**Used by:** RPT-11.PRG  
SETUP_FILS (procedure in C:\DATA\DBASE\RPT-3.PRG)

-----------------------------

### Structure for database : SOLDATA.DBF

**Number of data records :** 0  
**Last updated :** 07/08/93 at 15:01

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</table>

**Total :** 15

SNAP! did not find any associated index files

**Used by:** RPT-6.PRG  
GET_OTHR (procedure in C:\DATA\DBASE\RPT-3.PRG)

-----------------------------

### Structure for database : WORKPERF.DBF

**Number of data records :** 0  
**Last updated :** 07/08/93 at 15:26

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**Total :** 7

SNAP! did not find any associated index files

**Used by:** RPT-4.PRG
### Structure for database: DVRS101.DBF
- **Number of data records:** 3
- **Last updated:** 08/12/93 at 14:28

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</tr>
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**Total:** 49

This database appears to be associated with index file/tag(s):
- C:\DATA\DBASE\A101CONT.NDX (substr(cont_line, 1,13))

Used by: RPT-4.PRG
- SETP_FILS (procedure in C:\DATA\DBASE\RPT-7.PRG)

---

### Structure for database: DVRS701.DBF
- **Number of data records:** 0
- **Last updated:** 07/08/93 at 14:35

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**Total:** 78

This database appears to be associated with index file/tag(s):
- C:\DATA\DBASE\A701PIIN.NDX (substr(piin_clin, 1,13))

Used by: RPT-4.PRG
- SETP_FILS (procedure in C:\DATA\DBASE\RPT-7.PRG)

---

### Structure for database: DVRS00UD.DBF
- **Number of data records:** 0
- **Last updated:** 07/08/93 at 15:37

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<td>CH_RECV_DT</td>
<td>Date</td>
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**Total:** 30

SNAP! did not find any associated index files

Used by: RPT-5.PRG
Structure for database : DVRS00UQ.DBF
Number of data records : 0
Last updated : 07/08/93 at 15:37

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<td>Date</td>
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<td>17</td>
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** Total ** | 30 |

SNAP! did not find any associated index files
Used by: RPT-5.PRG

Structure for database : DVRS00PD.DBF
Number of data records : 0
Last updated : 07/08/93 at 15:37

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** Total ** | 30 |

SNAP! did not find any associated index files
Used by: RPT-5.PRG

Structure for database : DVRS00PQ.DBF
Number of data records : 0
Last updated : 07/08/93 at 15:37

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Used by: RPT-5.PRG

Structure for database : DVRS00DD.DBF
Number of data records : 0
Last updated : 07/08/93 at 15:37

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- **Last updated:** 07/08/93 at 15:37

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Used by: RPT-5.PRG
Structure for database: MUDKEY.DBF
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: RPT-9.PRG

Structure for database: OPENCON.DBF
Number of data records: 0
Last updated: 07/08/93 at 15:04

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Used by: RPT-11.PRG

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SET TALK OFF
SET ECHO OFF
CLEAR
DO bar def
ON SELECTION POPUP main_mnu DO barpop
ACTIVATE POPUP main_mnu

* Procedure: BARDEF
* Called by: MAIN_MNU.PRG
*
PROCEDURE bar def
DEFINE POPUP main_mnu FROM 4,20 TO 19,70;
   MESSAGE " Press number of menu choice, or highlight and press <Enter>"
DEFINE BAR 1 OF main_mnu PROMPT " ABVM DSS MAIN MENU =" SKIP
DEFINE BAR 2 OF main_mnu PROMPT " 1 - Summary ABVM Application Statistics"
DEFINE BAR 3 OF main_mnu PROMPT " 2 - ABVM Component Score Statistics"
DEFINE BAR 4 OF main_mnu PROMPT " 3 - Quality Vendor Program Information"
DEFINE BAR 5 OF main_mnu PROMPT " 4 - ABVM Implementation Benefits Indicators"
DEFINE BAR 6 OF main_mnu PROMPT " 5 - Challenge Statistics"
DEFINE BAR 7 OF main_mnu PROMPT " 6 - ABVM Buyer Performance"
DEFINE BAR 8 OF main_mnu PROMPT " 7 - ABVM Program Award Performance"
DEFINE BAR 9 OF main_mnu PROMPT " 8 - Center Statistics by Vendor Type"
DEFINE BAR 10 OF main_mnu PROMPT " 9 - Center Statistics by Solicitation Factors"
DEFINE BAR 11 OF main_mnu PROMPT " A - ABVM Score Trends"
DEFINE BAR 12 OF main_mnu PROMPT " B - Near-Term Deliveries on Differential Awards"
DEFINE BAR 13 OF main_mnu PROMPT " X - EXIT FROM PROGRAM"
RETURN

* Procedure: BARPOP
* Called by: MAIN_MNU.PRG
*
PROCEDURE barpop
DO CASE
CASE BAR() = 2
   CLEAR
   DO rpt-1
   WAIT
G-13
CLEAR
CASE BAR() = 3
CLEAR
DO rpt-2
WAIT
CLEAR
CASE BAR() = 4
CLEAR
DO rpt-3
WAIT
CLEAR
CASE BAR() = 5
CLEAR
DO rpt-4
WAIT
CLEAR
CASE BAR() = 6
CLEAR
DO rpt-5
WAIT
CLEAR
CASE BAR() = 7
CLEAR
DO rpt-6
WAIT
CLEAR
CASE BAR() = 8
CLEAR
DO rpt-7
WAIT
CLEAR
CASE BAR() = 9
CLEAR
DO rpt-8
WAIT
CLEAR
CASE BAR() = 10
CLEAR
DO rpt-9
WAIT
CLEAR
CASE BAR() = 11
CLEAR
DO rpt-10
WAIT
CLEAR
CASE BAR() = 12
CLEAR
DO rpt-11
WAIT
CLEAR
CASE BAR() = 13
DEACTIVATE POPUP
CLEAR ALL
RETURN
ENDCASE
RETURN
*: EOF: MAIN_MNU.PRG

*:*****************************************************************************
*: Procedure file: C:\DATA\DBASE\RPT-1.PRG
*: System: ABVM Decision Support System
*: Author:
*: Copyright (c) 1993,
*: Last modified: 08/03/93 14:12
*: Proc& Fncts: COMP_DIFF
*: : FSC_STATS
*: : TAB_AWDS
*: : RPT1_HEAD

G-14
program to compute summary ABVM application statistics (report 1)

28 jul 93

USE dwarfdb
ERASE awdbuyndx
INDEX ON buy_no TO awdbuy
USE bidven IN 2
SELECT 2
ERASE bidbuyndx
INDEX ON buy_no TO bidbuy
SELECT 1
SET RELATION TO buy_no INTO bidven
SET SKIP TO bidven
DO comp_diff
DO fsc_stats
CLOSE DATABASES
RETURN

Procedure: COMP_DIFF
Called by: RPT-1.PRG

Procedure: FSC_STATS
Called by: RPT-1.PRG

Procedure: RPT1_FSC
Set by: BARPOP
Calls: COMP_DIFF
Uses: DWARFDB.DBF
Indexes: AWDBUY.NDX
BIDBUY.NDX

Documented 08/12/93 at 15:17
SNAP! version 5.01
*! Uses: Dwarfd.dbf
*! Indexes: AWDNSN.NDX
*!---------------------------------------------------------------
PROCEDURE fsc_stats
*
* procedure to compute statistics by federal supply class (FSC)
*
CLOSE DATABASES
USE dwarfd
ERASE awdnsn.ndx
INDEX ON nsn TO awdnsn
GOTO TOP
DO rpt1_head
  d_awds = 0
  d_diff = 0
  d_abvm = 0
  dt_diff = 0.0
  d_cost = 0.0
  d_pabvm = 0.0
  d_pdiff = 0.0
  d_adiff = 0.0
  d_apct = 0.0
  numb_awds = 0
  numb_diff = 0
  numb_abvm = 0
  total_diff = 0.0
  ttl_cost = 0.0
  pct_abvm = 0.0
  pct_diff = 0.0
  ave_diff = 0.0
  ave_pct = 0.0
  fsc = SUBSTR(nsn,1,4)
SCAN
  SCAN WHILE fsc=SUBSTR(nsn,1,4)
    DO tab_awds
  ENDS SCAN
  DO rpt1_fsc
  *
  * must reset statistics for next FSC
  *
  fsc = SUBSTR(nsn,1,4)
  numb_awds = 0
  numb_diff = 0
  numb_abvm = 0
  total_diff = 0.0
  ttl_cost = 0.0
  pct_abvm = 0.0
  pct_diff = 0.0
  ave_diff = 0.0
  ave_pct = 0.0
  DO tab_awds
ENDS CAN
IF fsc <> ' ' 
  DO rpt1_fsc
ENDIF
DO rpt1_dsc
RETURN

*!---------------------------------------------------------------
*! Procedure: TAB_AWDS
*!---------------------------------------------------------------
*! Called by: FSC_STATS (procedure in RPT-1.PRG)
*!---------------------------------------------------------------
PROCEDURE tab_awds
*
* tabulates award statistics
*
G-16
numb_awds = numb_awds + 1
IF abvm_clause = 'y'
    numb_abvm = numb_abvm + 1
ENDIF
IF differentl > 0.0
    numb_diff = numb_diff + 1
    total_diff = total_diff + differentl
    ttl_cost = ttl_cost + total_cost
ENDIF
RETURN

 Procedure: RPT1_HEAD

 Called by: FSC_STATS (procedure in RPT-1.PRG)

 PROCEDURE rpt1_head

 * prints output heading
 *
 ? "Report 1 - Summary ABVM Application Statistics"
 ?
 ? "Number" AT 8, "Percent" AT 18, "Percen." AT 28, "Average" AT 38, ;
    "Average" AT 48
 ? "FSC" AT 1, "Awards" AT 8, "ABVM" AT 19, "w/ Diff" AT 28, "Diff ($)" AT 38, ;
    "Diff (pct)" AT 48
 ?
 RETURN

 Procedure: RPT1_FSC

 Called by: FSC_STATS (procedure in RPT-1.PRG)

 Calls: DSC_TAB (procedure in RPT-1.PRG)

 PROCEDURE rpt1_fsc

 * produces output statistics for each FSC
 *
 pct_abvm = 100.0 * numb_abvm / numb_awds
 pct_diff = 100.0 * numb_diff / numb_awds
 IF numb_diff > 0
    ave_diff = total_diff / numb_diff
    ave_pct = 100.0 * total_diff / ttl_cost
 ENDIF
 ?
?? fsc PICTURE "XXXX" AT 1
?? numb_awds PICTURE "99999" AT 9
?? pct_abvm PICTURE "999.99" AT 19
?? pct_diff PICTURE "999.99" AT 29
?? ave_diff PICTURE "99999.99" AT 38
?? ave_pct PICTURE "999.95" AT 49
DO dsc_tab
 * ? fsc, numb_awds, pct_abvm, pct_diff, ave_diff
 RETURN

 Procedure: DSC_TAB

 Called by: RPT1_FSC (procedure in RPT-1.PRG)

 PROCEDURE dsc_tab
 *
 * tabulates statistics at dsc level
 *
G-17
PROCEDURE rpt1_dsc
*
* computes and prints dsc summary statistics
*
\[ \frac{d_{\text{abvm}}}{d_{\text{awds}}} = \frac{d_{\text{awds}}}{d_{\text{awds}}} \]
\[ d_{\text{diff}} = \frac{d_{\text{diff}}}{d_{\text{awds}}} \]
\[ \text{IF } d_{\text{diff}} > 0 \]
\[ d_{\text{apct}} = \frac{d_{\text{diff}}}{d_{\text{cost}}} \]
ENDIF
?
?? "DSC" AT 1
?? d_{\text{awds}} PICTURE "99999" AT 9
?? d_{\text{pabvm}} PICTURE "999.99" AT 19
?? d_{\text{pdiff}} PICTURE "999.99" AT 29
?? d_{\text{d_adiff}} PICTURE "99999.99" AT 39
?? d_{\text{d_apct}} PICTURE "999.99" AT 49
RETURN
*: EOF: RPT-1.PRG

--------------------------------------------------------------------------
*: Procedure file: C:\DATA\DBASE\RPT-2.PRG
*
* System: ABVM Decision Support System
* Author: 
* Copyright (c) 1993, 
* Last modified: 08/03/93 15:15
* 
*: Procs & Fncts: RPT2_HDR
*: 
*: Set by: BARPOP (procedure in MAIN_MNU.PRG)
*: 
*: Calls: RPT2_HDR (procedure in RPT-2.PRG)
*: 
*: Uses: VRFCRATE.DBF
*: 
*: Indexes: VRFCAGE.NDX
*: 
*: Documented 08/12/93 at 15:17 SNAP! version 5.01
* program to compute ABVM component score statistics (report 2)
* 2 aug 93
*
USE vrfcrate
ERASE vrfcagendx
INDEX ON cage_code+fsc_code TO vrfcage
USE dwarfd IN 2
USE awdinfo IN 5
SELECT 5
ERASE awdkeyndx
INDEX ON buy_no TO awdkey
SELECT 2
ERASE awdcagendx
INDEX ON cage_code+SUBSTR(nsn,1,4) TO awdcagendx
SET RELATION TO cage_code+SUBSTR(nsn,1,4) INTO vrfcrate
SET SKIP TO vrfcrate
DO rpt2_hdr
DO comp_awds
?
WAIT
DO comp_bids
DO open_othr
CLOSE DATABASES
RETURN

*/! Procedure: RPT2_HDR
*/!
Called by: RPT-2.PRG
*/!
*****************************************************************************
PROCEDURE rpt2_hdr
CLEAR
?
? "Report 2 - ABVM Component Score Statistics"
?
RETURN

*/! Procedure: COMP_AWDS
*/!
Called by: RPT-2.PRG
*/!
Calls: RPT2_TOTLS (procedure in RPT-2.PRG)
*/!
*****************************************************************************
PROCEDURE comp_awds
*********
* must ensure that score is pulled for appropriate fsc
*********
SELECT 2
GOTO TOP
numb_abvm = 0
numb_non = 0
numb_tot = 0
a_overall = 0.0
a_ave = 0.0
a_deliv = 0.0
a_qual = 0.0
n_overall = 0.0
n_ave = 0.0
n_deliv = 0.0
n_qual = 0.0
x_overall = 0.0
x_ave = 0.0
x_deliv = 0.0
x_qual = 0.0
ttl_awds = 0
SCAN
  ttl_awds = ttl_awds + 1
  mfsc=SUBSTR(nsn,1,4)
mcage=cage_code
* ? mfscc mcage
mabvm=abvm_claus
SELECT 1
SEEK mcage=mfscc
IF FOUND()
  * ? vrfcrate->overall_sc
  IF mabvm = 'y'
    numb_abvm = numb_abvm + 1
    a_overall = a_overall + vrfcrate->overall_sc
    a_deliv = a_deliv + vrfcrate->deliv_score
    a_qual = a_qual + vrfcrate->qual_score
  ELSE
    numb_non = numb_non + 1
    n_overall = n_overall + vrfcrate->overall_sc
    n_deliv = n_deliv + vrfcrate->deliv_score
    n_qual = n_qual + vrfcrate->qual_score
  ENDIF
ELSE
  * ? "unable to locate score"
ENDIF
SELECT 2
ENDSCAN
a_ave = a_overall / numb_abvm
n_ave = n_overall / numb_non
a_deliv = a_deliv / numb_abvm
a_qual = a_qual / numb_abvm
n_deliv = n_deliv / numb_non
n_qual = n_qual / numb_non
numb_tot = numb_abvm + numb_non
x_ave = (a_overall + n_overall) / numb_tot
x_deliv = ((a_deliv * numb_abvm) + (n_deliv * numb_non)) / numb_tot
x_qual = ((a_qual * numb_abvm) + (n_qual * numb_non)) / numb_tot
DO rpt2_totls
RETURN

******************************************************************************
*:
*: Procedure: RPT2_TOTLS
*: Called by: COMP_AWDS (procedure in RPT-2.PRG)
*:******************************************************************************
PROCEDURE rpt2_totls
?
? "Part 2.1 - Awardee ABVM Statistics"
?
? "total awards = "
?? ttotal PICTURE "99999" AT 18
?
? "overall" AT 26, "delivery" AT 35, "quality" AT 46
? "number" AT 18, "average" AT 26, "average" AT 36, "average" AT 46
?
? " abvm awards" AT 1
?? numb_abvm PICTURE "9999" AT 20, a_ave PICTURE "999.9" AT 27, ;
?? a_deliv PICTURE "999.9" AT 37, a_qual PICTURE "999.9" AT 47
? "non-abvm awards" AT 1
?? numb_non PICTURE "9999" AT 20, n_ave PICTURE "999.9" AT 27, ;
?? n_deliv PICTURE "999.9" AT 37, n_qual PICTURE "999.9" AT 47
?
? " all awards" AT 1
?? numb_tot PICTURE "9999" AT 20, x_ave PICTURE "999.9" AT 27, ;
?? x_deliv PICTURE "999.9" AT 37, x_qual PICTURE "999.9" AT 47
RETURN

******************************************************************************
*
*: Procedure: OPEN_OTHR
*: Called by: RPT-2.PRG
*: Uses: BIDVEN.DBF
*: : VR-CRATE.DBF
*:******************************************************************************
PROCEDURE openothr
  *  
  *  developmental procedure to open other database files  
  *  
  USE bidven IN 3
  USE vr-crate IN 4
  RETURN

!* Procedure: COMP_BIDS
!* Called by: RPT-2.PRG
!* Calls: WRTRCD (procedure in RPT-2.PRG)
!*                PROC_INFO (procedure in RPT-2.PRG)
!* Uses: VRF-RATE.DBF
!*                BIDVEN.DBF
!* Indexes: AWDBUY.NDX
!*                BIDBUY.NDX
!*  
PROCEDURE comp_bids
  *
  *  procedure to compute the statistics for bids for each award  
  *
  SELECT 2
  ERASE awdbuy.ndx
  INDEX ON buy_no TO awdbuy
  *
  USE vrf-rate IN 6
  USE bidven IN 3
  SELECT 3
  ERASE bidbuy.ndx
  INDEX ON buy_no TO bidbuy
  GOTO TOP
  SCAN

  *  store the buy number to a memory variable
  mbuy=buy_no

  *  fetch the corresponding fsc for the award

  SELECT 2
  GOTO TOP
  SEEK mbuy
  IF FOUND()
    mfsc=SUBSTR(nsn, 1,4)
  ELSE
    mfsc='  ' 
  ENDIF
  *
  SELECT 3
  numb_bid = 0
  f_overall = 0.0
  z_overall = 0.0
  bids = 0
  ns_bids = 0
  SCAN WHILE mbuy=buy_no
    mcage=cage_code
    bids = bids + 1
    SELECT 1
    GOTO TOP
    SEEK mcage+mfsc
    IF FOUND()
      numb_bid = numb_bid + 1
      f_overall = f_overall + vrfcrate->overall_sc
      G-21
PROCEDURE wrt_rcd
SELECT 5
IF .NOT. SEEK(mbuy)
    APPEND BLANK
    REPLACE buy_no WITH mbuy
ELSE
    SEEK(mbuy)
ENDIF
REPLACE fsc WITH mfsc
REPLACE tot_bids WITH bids
REPLACE rtd_bids WITH numb_bid
REPLACE bid_abvm WITH z_overall
xrecno = RECNO()
SELECT 2
SEEK(mbuy)
IF FOUND()
    xclause = dwarfdb->abvm_claus
    xdiff = dwarfdb->differentl
    xcost = dwarfdb->total_cost
ELSE
    xclause = ''
    xdiff = 0.0
    xcost = 0.0
ENDIF
SELECT 5
GOTO xrecno
REPLACE abvm_claus WITH xclause
REPLACE differentl WITH xdiff
REPLACE total_cost WITH xcost
SELECT 3
RETURN

PROCEDURE proc_info
* * processes award/bid information
*
*
* SELECT 6
  ERASE abvmfsc.ndx
  INDEX ON fsc_code TO abvmfsc
* SELECT 5
  ERASE awdfsc.ndx
  INDEX ON fsc TO awdfsc
  DO bid_hdr
  SCAN
    numb_awds = 0
    numb_rtd = 0
    numb_bids = 0
    sum_score = 0.0
    numb_abvm = 0
    numb_non = 0
    rtd_abvm = 0
    rtd_nona = 0
    sum_a_rtd = 0.0
    sum_n_rtd = 0.0
    tot_abids = 0
    tot_nbids = 0

  xfsce = fsc
  SCAN WHILE xfsce=fsc
    numb_awds = numb_awds + 1
    numb_rtd = numb_rtd + awdinfo->rtd_bids
    numb_bids = numb_bids + awdinfo->tot_bids
    sum_score = sum_score + (rtd_bids * bid_abvm)
    IF abvmclaus = 'y'
      numb_abvm = numb_abvm + 1
      rtd_abvm = rtd_abvm + awdinfo->rtd_bids
      tot_abids = tot_abids + awdinfo->tot_bids
      sum_a_rtd = sum_a_rtd + (rtd_bids * bid_abvm)
    ELSE
      numb_non = numb_non + 1
      rtd_nona = rtd_nona + awdinfo->rtd_bids
      tot_nbids = tot_nbids + awdinfo->tot_bids
      sum_n_rtd = sum_n_rtd + (rtd_bids * bid_abvm)
    ENDIF
  ENDSCAN
  IF rtd_abvm > 0
    sum_a_rtd = sum_a_rtd / rtd_abvm
  ELSE
    sum_a_rtd = 0.0
  ENDIF
  IF rtd_nona > 0
    sum_n_rtd = sum_n_rtd / rtd_nona
  ELSE
    sum_n_rtd = 0.0
  ENDIF

  ?
  ?? xfsce PICTURE "XXXX" AT 1
  ?? numb_awds PICTURE "99999" AT 9
  ?? numb_bids PICTURE "99999" AT 18
  ?? numb_rtd PICTURE "99999" AT 28
  IF numb_rtd > 0
    sum_score = sum_score / numb_rtd
  ELSE
    sum_score = 0.0
  ENDIF

  ?? sum_score PICTURE "999.9" AT 38
  ?? numb_abvm PICTURE "99999" AT 47
  ?? sum_a_rtd PICTURE "999.9" AT 55
  ?? sum_n_rtd PICTURE "999.9" AT 63
  xrecno=RECNO()
  *
  * must modify somehow to find the fsc score
  * with the most recent date, since there may
  * be numerous fsc scores archived
  *
  SELECT 6
  *
  * probably, use of a scan would help,
* but the file must be indexed differently
* SEEK(xfsc)
IF FOUND()
  abvm_fsc = overall_sc
ELSE
  abvm_fsc = 0.0
ENDIF
?? abvm_fsc PICTURE "999.9" AT 71
*
SELECT 5
GOTO xrecno-1
ENDSCAN
SELECT 3
RETURN

******************************************************************************
* ! Procedure: BID_HDR
* ! Called by: PROC_INFO (procedure in RPT-2.PRG)
* !
******************************************************************************
PROCEDURE bid_hdr
?
"Part 2.2 - Bidder ABVM Statistics"
?
"score" AT 55, "score" AT 63, "FSC" AT 72
"number" AT 9, "total" AT 18, "rated" AT 28, "average" AT 37, 
"ABVM" AT 47, 
"ABVM" AT 56, "non-ABVM" AT 62, "ABVM" AT 72
"FSC" AT 1, "awards" AT 9, "bids" AT 19, "bids" AT 29, "score bid" AT 36, ;
"awards" AT 47, "bids" AT 56, "bids" AT 64, "score" AT 71
?
RETURN
*: EOF: RPT-2.PRG

******************************************************************************
* : Procedure file: C:\DATA\DBASE\RPT-3.PRG
* : System: ABVM Decision Support System
* : Author: 
* : Copyright (c) 1993, 
* : Last modified: 08/12/93 10:20
* :
* : Procs & Fncts: SETUP_FILS
* : ADD_AWDS
* : GET_OTHR
* : SUM_FSC
* : SUM_CAGE
* : OUT_INFO
* : GET_ABVM
* : GET_P_ABVM
*
* : Set by: BARPOP (procedure in MAIN_MNU.PRG)
*
* : Calls: SETUP_FILS (procedure in RPT-3.PRG)
* : ADD_AWDS (procedure in RPT-3.PRG)
* : GET_OTHR (procedure in RPT-3.PRG)
*
* : Documented 08/12/93 at 15:17   SNAP! version 5.01
******************************************************************************
* rpt-3.prg
* *
* program to compute QVP information (report 3)
* *
DO setup_fils
SELECT 1
DO add_awds
DO get_other
CLOSE DATABASES
PROCEDURE setup_files
*  
* sets up database files to be used for this report
*    
* area 1 => vendor
* area 2 => dwarfd
* area 3 => vr-crate
* area 4 => vrfcrate
*  
USE vendor
ERASE vencage.ndx
INDEX ON cage_code TO vencage
*  
USE dwarfd IN 2
SELECT 2
ERASE awdcage.ndx
INDEX ON cage_code+SUBSTR(nsn, 1, 4) TO awdcage
*  
USE vr-crate IN 3
SELECT 3
ERASE vrcage.ndx
INDEX ON cage_code TO vrcage
*  
USE vrfcrate IN 4
SELECT 4
ERASE vrfcage.ndx
INDEX ON cage_code+fsc_code TO vrfcage
*  
RETURN

PROCEDURE add_awds
*  
* procedure to aggregate award information by vendor
*  
SELECT 1
GOTO TOP
?  "Report 3 - Quality Vendor Program Information"
?  "No." AT 29, "Award" AT 36, "Diff" AT 46, "Diff" AT 55, "Bus" AT 64, ;
"Overall" AT 72
? "CAGE" AT 1, "Vendor Name" AT 7, "Awds" AT 28, "Dollars" AT 36, ;
G-25

SCAN

mcage = cage_code

* now use dwarfdb to find appropriate awards for vendor

SELECT 2
numb_awds = 0
numb_diff = 0
sum_value = 0.0
sum_diff = 0.0
SCAN

IF mcage = cage_code

mfsc = SUBSTR(nsn,1,4)
numb_f_awd = 0
numb_f_diff = 0
sum_f_valu = 0.0
sum_f_diff = 0.0
DO sum_fsc
DO sum_cage
ENDIF
SELECT 2
*
ENDIF
ENDSCAN

* go back to vendor file

SELECT 1
DO out_info
ENDSCAN
RETURN

*!* Procedure: SUM_FSC
*!* Called by: ADD_AWDS (procedure in RPT-3.PRG)
*!* PROCEDURE sum_fsc
* *
* add statistics for awards of current fac and cage
*
SCAN FOR (mfsc = SUBSTR(nsn,1,4)) .AND. (mcage = cage_code)
*
numb_f_awd = numb_f_awd + 1
sum_f_valu = sum_f_valu + total_cost
IF differentl > 0.0
numb_f_diff = numb_f_diff + 1
sum_f_diff = sum_f_diff + differentl
ENDIF
*
LASTREC=RECNO()
ENDSCAN
GOTO LASTREC
RETURN

*!* Procedure: SUM_FSC
*!* Called by: ADD_AWDS (procedure in RPT-3.PRG)
*!* PROCEDURE sum_fsc
* *
* add statistics for awards of current fac and cage
*
SCAN FOR (mfsc = SUBSTR(nsn,1,4)) .AND. (mcage = cage_code)
*
numb_f_awd = numb_f_awd + 1
sum_f_valu = sum_f_valu + total_cost
IF differentl > 0.0
numb_f_diff = numb_f_diff + 1
sum_f_diff = sum_f_diff + differentl
ENDIF
*
LASTREC=RECNO()
ENDSCAN
GOTO LASTREC
RETURN
Procedure: SUM_CAGE
Called by: ADD_AWDS (procedure in RPT-3.PRG)

PROCEDURE sum_cage
  * add fsc statistics for cage code
  *
  numb_awds = numb_awds + numb_f_awd
  sum_value = sum_value + sum_f_valu
  IF sum_f_diff > 0.0
    numb_diff = numb_diff + numb_f_diff
    sum_diff = sum_diff + sum_f_diff
  ENDIF
RETURN

Procedure: OUT_INFO
Called by: ADD_AWDS (procedure in RPT-3.PRG)
Calls: GET_ABVM (procedure in RPT-3.PRG)

PROCEDURE out_info
  * write output for appropriate vendors
  *
  IF qual_vnd_p = 'y'
    ? " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " 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Procedure: GET_ABVM
Called by: OUT_INFO (procedure in RPT-3.PRG)

PROCEDURE get_abvm
  * fetch abvm rating information
  *
  SELECT 3
  GOTO TOP
  SEEK(mcage)
  IF FOUND()
    abvm_sc = overall_sc
  ELSE
    abvm_sc = 0.0
  ENDIF
  SELECT 1
RETURN

Procedure: GET_F_ABVM

G-27
**Called by:** ADD_AMDS  
(procedure in RPT-3.PRG)

```plaintext
*!

*!-----------------------------------------------

PROCEDURE get_f_abvm
* 
* fetch abvm fac rating information 
*
SELECT 4
GOTO TOP
SEEK(mgage+msc)
IF FOUND()
  abvm_sc = overall_sc
ELSE
  abvm_sc = 0.0
ENDIF
SELECT 1
RETURN

*!-----------------------------------------------

*! Procedure: GET_OTHR
*!
*! Called by: RPT-3.PRG
*!
*! Uses: BIDVEN.DBF
*! : SOLDATA.DBF
*!

PROCEDURE get_othr
* 
* temporary procedure to open other database files 
* to be used by this report 
*
CLOSE DATABASES
USE bidven IN 5
USE soldata IN 6
CLOSE DATABASES
RETURN

*: EOF: RPT-3.PRG
```

---

*:----------------------------------------------------------------------
*: 
*: Program: C:\DATA\DBASE\RPT-4.PRG
*: 
*: System: ABVM Decision Support System
*: 
*: Copyright (c) 1993,
*: 
*: Last modified: 07/29/93 14:45
*: 
*: Called by: BARPOP  
*(procedure in MAIN_MNU.PRG)*
*: 
*: 
*: Uses: VRF-RATE.DBF
*: 
*: : DNRIFDB.DBF
*: 
*: : BIDVEN.DBF
*: 
*: : WORKPERF.DBF
*: 
*: : DVRS101.DBF
*: 
*: : DVRS701.DBF
*: 
*: 
*: Documented 08/12/93 at 15:17  
*: SNAP! version 5.01
*:----------------------------------------------------------------------

? "in report 4" 
USE vrf-rate
USE dwarfb IN 2
USE bidven IN 3
USE workperf IN 4
USE dvrs101 IN 5
USE dvrs701 IN 6
CLOSE DATABASES
RETURN
*: EOF: RPT-4.PRG
```

G-28
Program: C:\DATA\DBASE\RPT-5.PRG
System: ABVM Decision Support System
Author: Copyright (c) 1993,
Last modified: 07/29/93 14:46
Called by: BARPOP (procedure in MAIN_MNU.PRG)
Uses: DVRS00UD.DBF
DVRS00UQ.DBF
DVRS00PD.DBF
DVRS00PQ.DBF
DVRS00JD.DBF
DVRS00CQ.DBF
DVRS00CD.DBF
DVRS0A1.DBF
Documented 08/12/93 at 15:17 SNAP! version 5.01

? "in report 5"
USE dvrs00ud
USE dvrs00uq IN 2
USE dvrs00pd IN 3
USE dvrs00pq IN 4
USE dvrs00dd IN 5
USE dvrs00cq IN 6
USE dvrs00cd IN 7
USE dvrs0a1 IN 8
CLOSE DATABASES
RETURN
:
EOF: RPT-5.PRG

-----

Program: C:\DATA\DBASE\RPT-6.PRG
System: ABVM Decision Support System
Author: Copyright (c) 1993,
Last modified: 07/29/93 14:46
Called by: BARPOP (procedure in MAIN_MNU.PRG)
Uses: DWARFD.BDF
BIDVEN.DBF
SOLDATA.DBF
Documented 08/12/93 at 15:17 SNAP! version 5.01
?

USE dwarfd
USE bidven IN 2
USE soldata IN 3
CLOSE DATABASES
RETURN
:
EOF: RPT-6.PRG

-----

Procedure file: C:\DATA\DBASE\RPT-7.PRG
System: ABVM Decision Support System
Author: Copyright (c) 1993,
Last modified: 08/12/93 15:15
Procs & Fncs: SETP_FILS

CALLS: SETP_FILS

BRKFSC

COMPLATE

ADD_LATE

TAB_CAT

HDR7_FSC

OUT_INFO_F

Set by: BARPOP

Calls: SETP_FILS

BRKFSC

Documented 08/12/93 at 15:17 SNAP! version 5.01

rpt-7.prg

program to compute ABVM program award information (report 7)

CLEAR
DO setp_fils
SELECT 1
DO brk_fsc
CLOSE DATABASES
RETURN

----------------------------------------------------------------------

Procedure: SETP_FILS

Called by: RPT-7.PRG

Uses: DWARFDB.DBF

: DVRS101.DBF

: DVRS701.DBF

Indexes: AWDCONT.NDX

: A101CONT.NDX

: A701PIIN.NDX

----------------------------------------------------------------------

PROCEDURE setp_fils

sets up database files to be used for this report

area 1 => dwarfdb

area 2 => dvrs101

area 3 => dvrs701

USE dwarfdb

SELECT 1

ERASE awdcont.ndx

INDEX ON SUBSTR(nsn,1,4)+contract_n TO awdcont

USE dvrs101 IN 2

SELECT 2

ERASE a101cont.ndx

INDEX ON SUBSTR(cont_line,l,13) TO a101cont

USE dvrs701 IN 3

SELECT 3

ERASE a701piin.ndx

INDEX ON SUBSTR(piin_clin,1,13) TO a701piin

RETURN

----------------------------------------------------------------------

Procedure: BRKFSC

Called by: RPT-7.PRG

G-30
***: Calls: HDR7_FSC (procedure in RPT-7.PRG)
***: COMP_LATE (procedure in RPT-7.PRG)
***: ADD_LATE (procedure in RPT-7.PRG)
***: OUT_INFO_F (procedure in RPT-7.PRG)
***:******************************************************************************

PROCEDURE brk_fsc
*
* procedure to track performance award information by fsc
*
SELECT 1
GOTO TOP
?
"Report 7 - ABVM Program Award Performance"
?
SCAN
    mfsc = SUBSTR(nsn,1,4)

    * reset fsc statistics
    numb_delv = 0
    late_delv = 0
    late_tot = 0
    a_numb = 0
    a_late = 0
    a_days = 0
    d_numb = 0
    d_late = 0
    d_days = 0
    n_numb = 0
    n_late = 0
    n_days = 0

    * write header for fsc output
    DO hdr7_fsc
        ktype = ""
        SCAN FOR mfsc = SUBSTR(nsn,1,4)
            mcont = contract_n

            IF abvm_claus = "y"
                ktype = "a"
                IF differentl > 0.0
                    ktype = "d"
            ENDIF
        ELSE
            ktype = "n"
        ENDIF

        * now use dvrs101 to find performance for given award
        SELECT 2
        SEEK(mcont)
        IF FOUND()
            * compute whether delinquent
            late_days = 0
            DO comp_late
                DO add_late
                ELSE
                    * do nothing; move to next contract
                    ENDIF
        ENDIF
        SELECT 1
        LASTREC = RECNO()
    ENDSCEAN
    GOTO LASTREC
    DO out_info_f
    ENDSCEAN
    RETURN

***:******************************************************************************
***:
***: Procedure: COMP_LATE

G-31
**Called by: BRK_FSC (procedure in RPT-7.PRG)**

```plaintext
PROCEDURE complate
*
* determine if particular contract was delinquent
*
late_days = ship_dt - deliv_dt
IF late_days < 0
    late_days = 0
ENDIF
RETURN
```

**Procedure: ADD_LATE**

**Called by: BRK_FSC (procedure in RPT-7.PRG)**

**Calls: TAB_CAT (procedure in RPT-7.PRG)**

```plaintext
PROCEDURE add late
*
* aggregate statistics on late deliveries for fsc
*
IF ship_dt > CTOD("01/01/70")
    numb_delv = numb_delv + 1
    IF late_days > 0
        late_delv = late_delv + 1
        late_tot = late_tot + late_days
    ENDIF
    DO tabcat
    ENDIF
RETURN
```

**Procedure: TAB_CAT**

**Called by: ADD_LATE (procedure in RPT-7.PRG)**

```plaintext
PROCEDURE tab_cat
*
* aggregate statistics by abvm category
*
DO CASE
*
* abvm, no differential
CASE ktype = "a"
    a_numb = a_numb + 1
    IF late_days > 0
        a_late = a_late + 1
        a_days = a_days + late_days
    ENDIF
*
* abvm, with differential
CASE ktype = "d"
    d_numb = d_numb + 1
    IF late_days > 0
        d_late = d_late + 1
        d_days = d_days + late_days
    ENDIF
*
* non-abvm
CASE ktype = "n"
    n_numb = n_numb + 1
    IF late_days > 0
        n_late = n_late + 1
```

G-32
n_days = n_days + late_days
ENDIF
ENDCASE
RETURN

 Procedure: HDR7_FSC
 Called by: BRK_FSC (procedure in RPT-7.PRG)
 PROCEDURE hdr7_fsc

 Procedure: OUT_INFO_F
 Called by: BRK_FSC (procedure in RPT-7.PRG)
 PROCEDURE out_info_f

Program: C:\DATA\DBASE\RPT-8.PRG
System: ABVM Decision Support System
Copyright (c) 1993
Last modified: 07/29/93 14:46
Called by: BARPOP (procedure in MAIN_MNU.PRG)
Uses: DWARFDB.DBF
: BIDVEN.DBF
MUDKEY.DBF

Documented 08/12/93 at 15:17

SNAP! version 5.01

? "in report 8"
USE dwarfdb
USE bidven IN 2
USE mudkey IN 3
CLOSE DATABASES
RETURN
*: EOF: RPT-8.PRG

---

Program: C:\DATA\DBASE\RPT-9.PRG
System: ABVM Decision Support System
Author:
Copyright (c) 1993,
Last modified: 07/29/93 14:46
Called by: BARPOP (procedure in MAIN_MNU.PRG)
Uses:
USES: DWARFDB.DBF
USES: BIDVEN.DBF
USES: MUDKEY.DBF

Documented 08/12/93 at 15:17

SNAP! version 5.01

? "in report 9"
USE dwarfdb
USE bidven IN 2
USE mudkey IN 3
CLOSE DATABASES
RETURN
*: EOF: RPT-9.PRG

---

Program: C:\DATA\DBASE\RPT-10.PRG
System: ABVM Decision Support System
Author:
Copyright (c) 1993,
Last modified: 07/28/93 15:18
Called by: BARPOP (procedure in MAIN_MNU.PRG)
Uses:
USES: VRF-RATE.DBF
Indexes:
Indexes: VRF-RATE.NDX

Documented 08/12/93 at 15:17

SNAP! version 5.01

rpt-10.prg

** program to list ABVM scoring trends (report 10)

28 jul 93

USE vrf-rate
ERASE vrf-rate.ndx
INDEX ON fsc_code+DTOC(score_date) TO vrf-rate
SET FIELDS TO fsc_code, overall_sc, score_date
GOTO TOP
?
"FSC" AT 1, "Date" AT 9, "Score" AT 19
SCAN WHILE .NOT. EOF()
    IF score_date >= CTOD("02/01/91")
    ?
USE dwarfdb
USE vendor IN 2
USE opencon IN 3
CLOSE DATABASES
RETURN

*: EOF: RPT-11.PRG
Prototype ABVM DSS dBase IV Screens

 pressed number of menu choice, or highlight and press <Enter>
Report 1 - Summary ABVM Application Statistics

<table>
<thead>
<tr>
<th>FSC</th>
<th>Number</th>
<th>Percent</th>
<th>Percent Diff</th>
<th>Average Diff ($)</th>
<th>Average Diff (pct)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1234</td>
<td>3</td>
<td>66.67</td>
<td>66.67</td>
<td>383.50</td>
<td>63.92</td>
</tr>
<tr>
<td>9876</td>
<td>2</td>
<td>100.00</td>
<td>50.00</td>
<td>1995.00</td>
<td>39.90</td>
</tr>
<tr>
<td>DSC</td>
<td>5</td>
<td>80.00</td>
<td>60.00</td>
<td>920.67</td>
<td>44.55</td>
</tr>
</tbody>
</table>

Press any key to continue...
Report 2 - ABVM Component Score Statistics

Part 2.1 - Awardee ABVM Statistics

total awards = 5

<table>
<thead>
<tr>
<th></th>
<th>number</th>
<th>overall average</th>
<th>delivery average</th>
<th>quality average</th>
</tr>
</thead>
<tbody>
<tr>
<td>abvm awards</td>
<td>4</td>
<td>89.8</td>
<td>87.5</td>
<td>91.3</td>
</tr>
<tr>
<td>non-abvm awards</td>
<td>1</td>
<td>80.0</td>
<td>80.0</td>
<td>80.0</td>
</tr>
<tr>
<td>all awards</td>
<td>5</td>
<td>87.8</td>
<td>86.0</td>
<td>89.0</td>
</tr>
</tbody>
</table>

Press any key to continue...

Part 2.2 - Bidder ABVM Statistics

<table>
<thead>
<tr>
<th>FSC</th>
<th>number</th>
<th>total bids</th>
<th>rated bids</th>
<th>average score</th>
<th># ABVM awards</th>
<th>score ABVM bids</th>
<th>score non-ABVM bids</th>
<th>FSC score</th>
</tr>
</thead>
<tbody>
<tr>
<td>1234</td>
<td>3</td>
<td>10</td>
<td>6</td>
<td>91.2</td>
<td>2</td>
<td>94.0</td>
<td>88.3</td>
<td>95.0</td>
</tr>
<tr>
<td>9876</td>
<td>2</td>
<td>5</td>
<td>2</td>
<td>88.0</td>
<td>2</td>
<td>88.0</td>
<td>0.0</td>
<td>87.0</td>
</tr>
</tbody>
</table>

Press any key to continue...
<table>
<thead>
<tr>
<th>CAGE</th>
<th>Vendor Name</th>
<th>No. Awds</th>
<th>Award Dollars</th>
<th>Diff Awds</th>
<th>Diff Dollars</th>
<th>Bus Sz</th>
<th>Mf</th>
<th>ABVM</th>
</tr>
</thead>
<tbody>
<tr>
<td>00001</td>
<td>1234</td>
<td>1</td>
<td>1000.00</td>
<td>1</td>
<td>667.00</td>
<td>95.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>00001</td>
<td>9876</td>
<td>1</td>
<td>5000.00</td>
<td>1</td>
<td>1995.00</td>
<td>99.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>00001</td>
<td>abracadabra industri</td>
<td>2</td>
<td>6000.00</td>
<td>2</td>
<td>2662.00</td>
<td>s y</td>
<td>98.0</td>
<td></td>
</tr>
<tr>
<td>00002</td>
<td>lipps inc</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0.00</td>
<td>l n</td>
<td>73.0</td>
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</tr>
<tr>
<td>00003</td>
<td>1234</td>
<td>1</td>
<td>500.00</td>
<td>0</td>
<td>0.00</td>
<td>s y</td>
<td>86.0</td>
<td></td>
</tr>
<tr>
<td>00003</td>
<td>int1 business machin</td>
<td>1</td>
<td>500.00</td>
<td>0</td>
<td>0.00</td>
<td>s y</td>
<td>86.0</td>
<td></td>
</tr>
<tr>
<td>00010</td>
<td>pittsburgh elephant</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0.00</td>
<td>n</td>
<td>91.2</td>
<td></td>
</tr>
<tr>
<td>99999</td>
<td>9876</td>
<td>1</td>
<td>350.00</td>
<td>0</td>
<td>0.00</td>
<td>s y</td>
<td>83.4</td>
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</tr>
<tr>
<td>99999</td>
<td>racine industries</td>
<td>1</td>
<td>350.00</td>
<td>0</td>
<td>0.00</td>
<td>s y</td>
<td>83.4</td>
<td></td>
</tr>
</tbody>
</table>

Press any key to continue...
<table>
<thead>
<tr>
<th>PSC</th>
<th>1234</th>
<th>ABVM</th>
<th>ABVM</th>
<th>Non</th>
<th>ABVM</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>% delinquent</td>
<td>0.0</td>
<td>**<em>.</em></td>
<td>100.0</td>
<td>50.0</td>
<td>14.0</td>
<td>14.0</td>
</tr>
<tr>
<td>avg days late</td>
<td>**<em>.</em></td>
<td>**<em>.</em></td>
<td>14.0</td>
<td>14.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Press any key to continue...

<table>
<thead>
<tr>
<th>PSC</th>
<th>9876</th>
<th>ABVM</th>
<th>ABVM</th>
<th>Non</th>
<th>ABVM</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>% delinquent</td>
<td>**<em>.</em></td>
<td>**<em>.</em></td>
<td>**<em>.</em></td>
<td>**<em>.</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>avg days late</td>
<td>**<em>.</em></td>
<td>**<em>.</em></td>
<td>**<em>.</em></td>
<td>**<em>.</em></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Press any key to continue...
Press any key to continue...
<table>
<thead>
<tr>
<th>FSC</th>
<th>Date</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>1234</td>
<td>02/01/91</td>
<td>73.0</td>
</tr>
<tr>
<td>1234</td>
<td>02/15/91</td>
<td>78.0</td>
</tr>
<tr>
<td>1234</td>
<td>03/01/91</td>
<td>88.0</td>
</tr>
<tr>
<td>1234</td>
<td>03/15/91</td>
<td>83.0</td>
</tr>
<tr>
<td>1234</td>
<td>04/01/91</td>
<td>89.0</td>
</tr>
<tr>
<td>2000</td>
<td>02/01/91</td>
<td>75.0</td>
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<tr>
<td>2000</td>
<td>03/01/91</td>
<td>77.0</td>
</tr>
<tr>
<td>9876</td>
<td>06/01/93</td>
<td>87.0</td>
</tr>
</tbody>
</table>

Press any key to continue...
The DLA Operations Research Office (DORO) has developed a Decision Support System for tracking the usage and effectiveness of the Automated Best Value Model (ABVM). This Functional Description for the system details the type of information needed, the structure of the reports, and a mapping to the required data elements. The Functional Description can be used by DLA Pre-Award Contracting System programmers as the baseline for required system changes.
## GENERAL INSTRUCTIONS FOR COMPLETING SF 298

The Report Documentation Page (RDP) is used in announcing and cataloging reports. It is important that this information be consistent with the rest of the report, particularly the cover and title page. Instructions for filling in each block of the form follow. It is important to **stay within the lines** to meet optical scanning requirements.

<table>
<thead>
<tr>
<th>Block 1: Agency Use Only (Leave blank)</th>
<th>Block 12a. Distribution/Availability Statement. Denotes public availability or limitations. Cite any availability to the public. Enter additional limitations or special markings in all capitals (e.g. NOFORN, REL, ITAR).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block 2. Report Date. Full publication date including day, month, and year, if available (e.g. 1 Jan 88). Must cite at least the year.</td>
<td>DOD - See DoDD 5230.24, &quot;Distribution Statements on Technical Documents.&quot;</td>
</tr>
<tr>
<td>Block 3. Type of Report and Dates Covered. State whether report is interim, final, etc. If applicable, enter inclusive report dates (e.g. 10 Jun 87 - 30 Jun 88).</td>
<td>DOE - See authorities.</td>
</tr>
<tr>
<td>Block 4. Title and Subtitle. A title is taken from the part of the report that provides the most meaningful and complete information. When a report is prepared in more than one volume, repeat the primary title, add volume number, and include subtitle for the specific volume. On classified documents enter the title classification in parentheses.</td>
<td>NASA - See Handbook NHB 2200.2.</td>
</tr>
<tr>
<td>Block 5. Funding Numbers. To include contract and grant numbers; may include program element number(s), project number(s), task number(s), and work unit number(s). Use the following labels: C - Contract, PR - Project, G - Grant, TA - Task, PE - Program, WU - Work Unit, Element Accession No.</td>
<td>NTIS - Leave blank.</td>
</tr>
<tr>
<td>Block 6. Author(s). Name(s) of person(s) responsible for writing the report, performing the research, or credited with the content of the report. If editor or compiler, this should follow the name(s).</td>
<td></td>
</tr>
<tr>
<td>Block 7. Performing Organization Name(s) and Address(es). Self-explanatory.</td>
<td></td>
</tr>
<tr>
<td>Block 8. Performing Organization Report Number. Enter the unique alphanumeric report number(s) assigned by the organization performing the report.</td>
<td>Block 13. Abstract. Include a brief (Maximum 200 words) factual summary of the most significant information contained in the report.</td>
</tr>
<tr>
<td>Block 9. Sponsoring/Monitoring Agency Name(s) and Address(es). Self-explanatory.</td>
<td>Block 14. Subject Terms. Keywords or phrases identifying major subjects in the report.</td>
</tr>
<tr>
<td>Block 10. Sponsoring/Monitoring Agency Report Number. (If known)</td>
<td>Block 15. Number of Pages. Enter the total number of pages.</td>
</tr>
<tr>
<td>Block 11. Supplementary Notes. Enter information not included elsewhere such as: Prepared in cooperation with...; Trans. of...; To be published in...; When a report is revised, include a statement whether the new report supersedes or supplements the older report.</td>
<td>Block 16. Price Code. Enter appropriate price code (NTIS only).</td>
</tr>
<tr>
<td>Block 13. Abstract. Include a brief (Maximum 200 words) factual summary of the most significant information contained in the report.</td>
<td>Block 20. Limitation of Abstract. This block must be completed to assign a limitation to the abstract. Enter either UL (unlimited) or SAR (same as report). An entry in this block is necessary if the abstract is to be limited. If blank, the abstract is assumed to be unlimited.</td>
</tr>
</tbody>
</table>