

AN ABSTRACT OF THE THESIS OF

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The increasing pressure of fiscal limitations coupled with enrollment increases has left the community colleges in the difficult position of having to explore the possibility of limiting enrollment by limiting educational programs. In order to properly evaluate the factors surrounding such decisions, improved information must become available about actual instructional program costs.

The Western Interstate Commission on Higher Education has been a leading proponent in encouraging colleges to adopt programming, planning, budgeting systems (PPBS) which is a first step in education fiscal management. Other groups, including the California Junior College Association, have established task forces to study the problems of community college finance in terms of budgeting and reporting systems. Business managers within the community college field have also been actively promoting better ways to report educational expenses.

This study provides an additional educational decision making tool by developing a computer program which generates a simulation model of an accounting chargeback system. This model of a chargeback system reallocates all direct and indirect expenditures to the various instructional programs of the college. The formulas and systems by which the reallocation is made have been developed by the writer and subsequently reviewed by college fiscal officers and computer system's analysts. The data output of the computer simulation model is in the following format:

Program 2951 (Instructional Program Code)

| | | |
|-------------------------------------|----------|----------|
| Division Overhead | xxxx. xx | |
| Campus Administration Overhead | xxxx. xx | |
| District Overhead | xxxx. xx | |
| Vocational Education Administration | xxxx. xx | |
| Field Maintenance | xxxx. xx | |
| Pool Maintenance | xxxx. xx | |
| Campus Maintenance | xxxx. xx | |
| Subtotal - Indirect Costs | | xxxx. xx |
| Evening Salaries | | xxxx. xx |
| Program Direct Costs | | xxxx. xx |
| Program Total Costs | | xxxx. xx |
| Total Instructional Hours | xxxx. xx | |
| Cost Per Instructional Hour | | xxxx. xx |

The program also lists the computational factors used in the allocation process.

Two ancillary computer programs were also developed to provide appropriate input data for the simulation model program. These subsidiary programs recapitulate the year end fiscal data and the total instructional hours for the academic year including summer sessions and evening classes.

All of the computer programs were written in COBOL language and designed to operate on a System 360-G40 IBM computer with a disk direct access system. The study includes the computer program listings as well as the system flow charts, computer printer outputs, and data record file descriptions. The sample data used in testing the computer simulation model was made available by the Foothill Community College District.

The successful implementation of the computer model demonstrates the feasibility of using this valuable, but previously unavailable information, in the educational decision making process.

A Computer Simulation Model of an Accounting
Chargeback System for Community Colleges

by

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TABLE OF CONTENTS

| <u>Chapter</u> | | <u>Page</u> |
|----------------|--|-------------|
| I | INTRODUCTION | 1 |
| | Statement of the Problem | 1 |
| | Purpose of the Study | 5 |
| | Parameters of the Study | 6 |
| | Definition of Terms | 8 |
| II | REVIEW OF THE LITERATURE | 12 |
| | Expenditure Reporting and Cost Accounting | 12 |
| | Budgeting and PPBS | 17 |
| | Survey of Current Community College Expenditure Reporting | 21 |
| III | METHODOLOGY | 27 |
| | Charts of Accounts | 27 |
| | Indirect Expenditure Allocation Assumptions | 35 |
| | Schematics of the Model | 44 |
| IV | SYSTEM ANALYSIS AND COMPUTER CODING | 52 |
| | System Flowcharts | 52 |
| | Main Program System | 59 |
| | Subsystems | 68 |
| V | SIMULATION PROGRAM OUTPUT | 80 |
| | Basic Data Output | 80 |
| | Subsidiary Data Output | 84 |
| | Conclusions and Recommendations | 89 |
| | BIBLIOGRAPHY | 91 |
| | APPENDIX I | 95 |
| | APPENDIX II | 96 |
| | APPENDIX III | 97 |
| | APPENDIX IV | 105 |

A COMPUTER SIMULATION MODEL OF AN ACCOUNTING CHARGEBACK SYSTEM FOR COMMUNITY COLLEGES

CHAPTER I

INTRODUCTION

1.1 Statement of the Problem

The community college today is faced with an ever expanding demand for its educational services, yet at the same time it must operate with decreasing budget resources. In view of this problem, there is an increasing awareness on the part of professional educators as well as citizens in the community that educational administration is not equivalent to educational management. It is not the purpose of this study to debate the administration versus management theories, but rather to develop a model for one sub-system within the management role of the finances of most community colleges.

Any model designed to serve as an aid to management, planning, and resource allocation in institutions of education must be structured so as to relate to all levels of decision making if it is to be effective and to be used by educators (1). The ability to determine accurately the true share of resources the college dedicates to specific educational programs is now an educational management priority. There are two primary reasons for this requirement.

First, the enrollment growth in community colleges continues to accelerate nationally at an annual rate exceeding 15 percent. However, at the very sametime, the median college district's true market value of personal property valuation behind each student has risen only four and one-half percent (2). Thus, local tax funds are supporting more students with less money. The net result of the increasing pressure of this enrollment-fiscal problem is the need to examine very carefully the total costs of educational programs in view of possible program elimination. Program elimination would generally be the method of cost reduction rather than enrollment limitations since most states operate on an "open door"¹ admission policy for community colleges. Hence, an alternative is to limit enrollment by not offering specific programs.

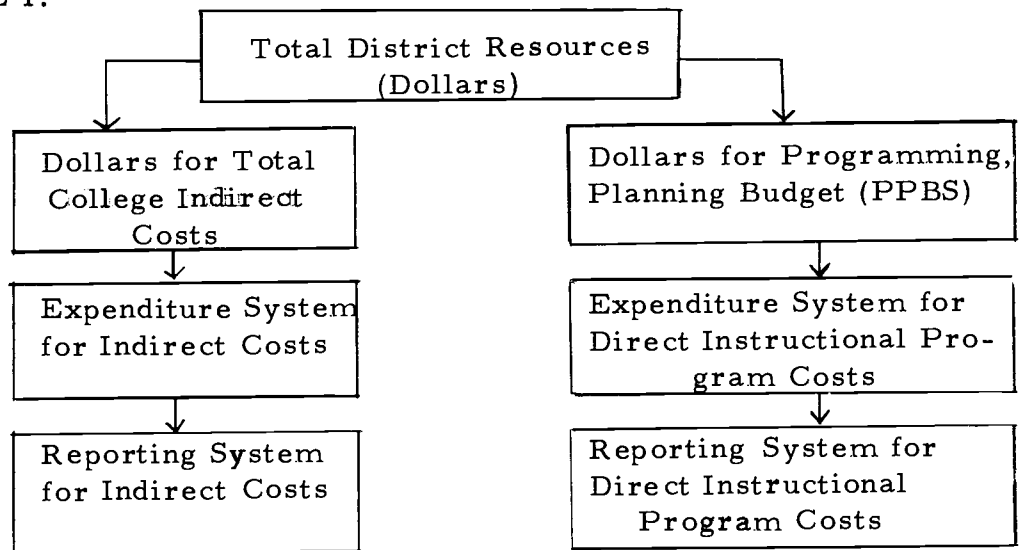
The second compelling reason for accurate total program costs is the reimbursement method used for allocation of federal funds, particularly those funds received under the Vocational Education Amendments of 1968 (P. L. 90-576).

A planning, programming, budgeting, system (PPBS) provides (3, p. 1) the information necessary (a) for planning educational programs that will meet the needs of the community; and (b) for choosing

¹ "Open door" means that any individual may enroll in the community college regardless of his previous academic record. In many cases this includes anyone 18 years of age or older who can profit from additional educational experiences.

among the alternative ways in which a community college can allocate resources to achieve its goals and objectives. While PPBS differs from current planning and budgeting systems in its emphasis on the defining of college needs, goals, and objectives, there still remains, after implementing PPBS, a considerable problem for the college's fiscal office and that is the process of expenditure reporting. The flow chart of Figure 1 illustrates a typical pattern of program expenditure reporting as now generally done in those community colleges surveyed (Appendix I).

FIGURE 1:

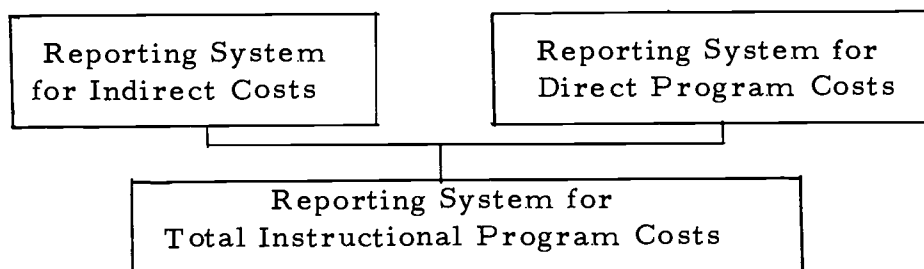


Indirect Costs: Administrative salaries;
Fixed charges; physical plant, insurance,
utilities, etc.

Direct Costs: Instructional salaries;
Supplies;
Equipment, etc.

The ideal situation would be the allocation of the indirect costs directly to the instructional programs which are being supported so that a complete cost figure for each of the programs will emerge. That is, the total instructional program cost of Figure 2 would be the actual dollar outlay for each of the instructional programs offered by the college.

FIGURE 2:

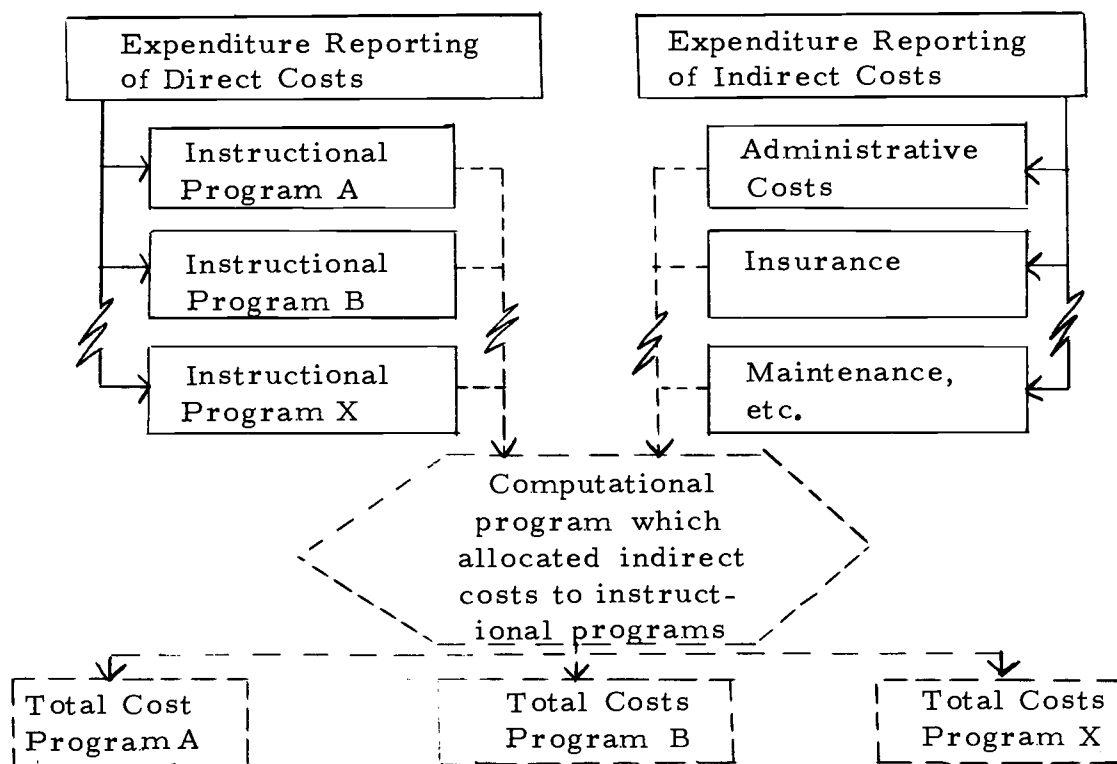


In summary, the broad problem is not one of designing a programming, planning, budget system since this is being adequately researched by Western Interstate Commission for Higher Education (WICHE) and others (4, 5, 6). The need is to develop workable techniques of reporting expenditures back to the educational managers which is current, accurate, and program oriented. Almost every community college has such a reporting system for direct program expenditures. A personal on-campus visitation (Appendix II) of 26 community colleges in Washington, Idaho, Oregon, and California revealed no ongoing reporting system for allocating indirect college-wide expenditures into program areas.²

1.2 Purpose of the Study

The purpose of this study is to create a rationale and method for charging back to instructional programs those expenditures which are defined as indirect costs of the community college. Figure 3 shows more specifically the part of the expenditure reporting system which this study will treat.

FIGURE 3:



Currently being done —————
 Purpose of this study - - - - -

²In California due to VEA funding requirements, an estimated overhead figure is applied to arrive at "actual" program costs in vocational education programs.

In addition to the more common indirect costs, the study will provide a means for charging back to the user the costs of such departments as data processing, stores, purchasing, duplicating and printing, transportation, and similar services which can be specifically allocated to the instructional program through a customer-vender approach. For example, if the physics department wishes to publish a syllabus, then there will be a method of charging that program directly for the cost of the printing.

1.3 Parameters of the Study

As mentioned in the Introduction, almost every community college differs somewhat in the operation of their accounting system. To create a charge back system which could be guaranteed to fit smoothly into every community college accounting system would end up being so general it would be completely ineffective. Thus, the chargeback system is patterned on a model which will have the greatest possibility for universal acceptance and use. The programming, planning, budgeting system of WICHE provides such a model since, as Hirsch (7) points out, a useful education budget program includes end-product orientation and ease of meaningful breakdown into program elements and these are the strengths of PPBS.

The committee of WICHE which is developing management information systems includes two community colleges. Of the two, California's Foothill Community College District (Seattle is the

other) has been chosen to serve as the model for the chargeback system. The primary reasons are eight in number:

1. The system employed by California is basically a program cost system and parallels the concept of programming, planning, budget system (PPBS) which is now beginning to emerge in educational institutional management. In addition, since one out of every three community college students in the United States is in a California Community College (3), a cost system to meet the requirements of these colleges will provide the largest degree of usability;
2. The Foothill District is multi-campus which provides a two level chargeback system - thus a model for both single and multi-campus districts;
3. The accounting system used by the Foothill District is dual in that it employs both its own program budget format and the California state mandated object classification chart of accounts - thus a suitable model for those colleges employing either system;
4. The District agreed to cooperate in the testing and implementation of the chargebook system.
5. The District is well known for its educational program;
6. The District is locally tax supported and state subsidized;
7. The District has been experiencing the problems of increasing enrollments and decreasing operational funds.
8. The writer served in the fiscal office at the District and was in a position to obtain the systems development data.

Appendix III is a copy of the district's chart of accounts which forms the systems base of the study.

Since the study is an expenditure allocation problem, the means of budget creation is omitted.

The computer chargeback system is developed and is designed to operate on an IBM 360-40 Model G computer, with all disc memory.

The chargeback program will be a sub-system of the current operating monthly budget expenditure reporting system of the District. A companion sub-system dealing with classroom use, masters schedules, and weekly student contact hours (WSCH) will provide input data for the chargeback system. The flowchart criteria and the documentation (Chapters IV and V) will conform to the specifications required by the Data Services Department of the Foothill District (8).

1.4 Definition of Terms

The definitions listed below apply to accounting terms which are peculiar to community college accounting. In addition, general accounting terms which often bear special meanings when applied to institutional accounting are also included. Several of these terms are adapted from Volume I of College and University Business Administration (9, p. 137). Other terms which have

specific meanings, but are not necessarily accounting terms are also included in this section. While no universality of use is claimed for these latter definitions, they are in the large part accepted by most community college administrators and fiscal managers.(Appendix II)

Appropriation - An authorization to incur obligations and to make expenditures of not to exceed the amount stated for a specified purpose.

Appropriation Account - An account set up for budgetary control, to which is credited the amount authorized to meet expenditures, and to which are charged encumbrances and expenditures.

Budget - A statement of the estimated income and expenditures during a fixed period or for a specific project. When approved by proper authorities, budgets become authorizations to incur expenditures and to collect the income as set forth therein.

Encumbrances - Obligations in the form of orders, contracts, and similar items which are incurred and which will become payable when goods are delivered or services rendered. This term is synonymous with commitments.

Expenditures - The cost of goods delivered or services rendered, whether actually paid or unpaid, for the operation of an institution and for additions to its plant.

Functional Classification - The grouping of expense items according to purpose for which the expenditure was incurred, for example, general administration, instruction, libraries, maintenance, etc.

General Administration Expenditures - Expenditures of the general executive and administrative offices of the institution, including all costs of Board of Trustees, the chief executive officer and his staff, the business office and other general staff personnel.

Instructional Expenditures - Expenditures of instructional departments including salaries, office expense and equipment, travel, supplies, and related expenses.

Instructional Programs - Those curriculum course offerings which are taught by an instructional department or division. The program may be universal in concept such as the chemistry program, or it may be occupationally oriented such as a dental hygiene program.

Object Classification - A method of classifying expenditures according to that which is received in return for expenditures, for example, personal services, materials, supplies, and equipment.

Plant - The physical property owned by the institution and used for institutional purposes. That is, land, buildings, improvements other than buildings and equipment.

The terms which follow are used to develop the rationale for the chargeback system procedure. The majority of these definitions have been compiled from the Handbook of Definitions issued by the Office of the Chancellor, California Community Colleges (10). Terms which have common understanding are not included.

Community Services - Those services provided by a community college district for the community as a whole or for some segment of the community, excluding public school and adult education programs operated by the district for which a state apportionment is received.

Day Classes - Those classes usually beginning before 4:30 p. m.

District - A school district maintaining or formed to maintain one or more community colleges.

FTE - Full time equivalent student is one who is enrolled for exactly 15 contact hours of course work per week. (Contact hours as opposed to credit hours gives more reliable information. Not every college gives one credit for every contact hour in class.)

Instructional Space - This is that space in which organized class instruction takes place, that is, classroom, laboratory, seminar, shop and ancillary space only.

WSCH - Weekly student contact hours.

Other terms may be used which are highly specific to the subject at hand and will be defined in footnotes where used.

CHAPTER 2

REVIEW OF THE LITERATURE

2.1 Expenditure Reporting and Cost Accounting

A review of the literature indicates that expenditure reporting by program is generally referred to as "cost accounting". However, cost accounting for industry is not the same as expenditure reporting for educational institutions. There are two basic differences. First, as Scheps (11) points out, expenditure reporting (accounting) is designed primarily to account for cash payments or the incurring of obligations, while cost accounting is concerned with that portion of material or services which has been consumed. Secondly, expenditure reporting is concerned with funds paid out without specific reference to the work performed, whereas cost accounting attempts to relate costs to units of work. Moreover, according to Scheps, expenditure reporting provides for a distribution of costs by department, but does not indicate what has been accomplished by incurring these costs.

The definition of cost accounting proposed by the Committee on Governmental Cost Accounting (12) provides a base to which amendments can be made to develop a usable definition of expenditure reporting for this study. The Committee proposed,

that method of accounting which provides for the assembling and recording of all the elements of cost incurred, to accomplish a purpose, to carry on an activity or operation, or to complete a unit of work or specific job.

As indicated in the Introduction, total expenditures, which includes all indirect costs of the institution, must be borne by the instructional programs which the community college offers. Thus, the definition of total expenditure reporting for this study will be:

that method of accounting which provides for the assembling and recording of all the elements of costs, direct and indirect, which are incurred in the operation of a specific educational program.

Business officers and instructional administrators agreed (Appendix II) that a specific educational program is one which has identity either by the commonality of courses offered (i. e. , physics) or by its occupational orientation (i. e. , auto mechanics). In either case, the college delineates a given instructional program by assigning to it a budget classification number (or code) to which will be assessed all the expenses incurred in its operation.

The argument between those who advocate the use of expenditures per student contact hour and those who advocate the use of gross expenditures per program³ is an on-going one. From the literature there emerge four reasons for supporting the expenditures per student contact hour approach:

³Gross expenditures is the term used to indicate the total of all costs for an instructional program, both direct and indirect, which occur during a fiscal year.

- (1) As Morey (13, p. 184) points out, comparisons between similar departments of the institution are possible;
- (2) They (unit costs) provide for a complete analysis and survey of the administrative and financial policies of the institution (9, p. 126);
- (3) Unit costs are helpful in long range reorganization of departments within an institution (11, p. 293);
- (4) Unit costs can provide comparisons between departments and institutions.

The four arguments given above for the student contact hour concept are vulnerable in the community college setting. Scheps (11, p. 293) points out that unit costs do not solve financial and administrative problems since differences in instruction cannot be accounted for, and thus, lower per unit student cost does not mean a more efficient operation. Measurements between colleges on this basis are also generally irrelevant due to staffing policies and facility differences as well as student enrollment (7). In addition, no college visited by the writer (Appendix II) was willing, for example, to abandon all laboratory courses because laboratory courses cost per student unit were more than the cost per student unit for large lecture courses.

An additional argument in favor of the gross program expenditures concept adopted by this study is that of intent. In the field of community college education, authors such as Thornton, Blocker, and Cohen (14, 15, 16) each make a strong case for their position that if a community college student takes just one course which

meets his educational needs, then the college has fulfilled one of its important functions. Thus, gross student contact hours and the accompanying cost per contact hour do not necessarily measure the end product of the community college. Instead, contact hours measure only student use of the instructional program and use is an outcome of a more basic condition. That is, use (student attendance) indicates a program which was needed either partially or in its entirety by one or many students. Thus student needs for programs will determine the instructional hours that will be offered by the college and thus directly affect costs in community colleges. This study, for the reasons outlined above and which were emphasized in the literature, will use the expenditure per program concept as previously defined. Two additional considerations make the expenditure per program choice even more compelling. That is, as stated in the introduction, there is an on-going need (17) for determining total program costs for vocational education as well as a requirement for knowing the fiscal impact of program elimination.

The literature has one major source for information on expenditure reporting. This source is the reference previously used (11) of Scheps' book, Accounting for Colleges and Universities. This book is generally acknowledged by most college and university business managers as the "Bible" in the field of institutional

accounting. The second, and only other recent⁴ comprehensive reference in this area, is published by the American Council on Education and called College and University Business Administration (9). Each book offers a chapter on expenditure accounting for institutions. Scheps offers the most information on this subject.

He suggests three phases of expenditure accounting for educational institutions. They are (11, p. 266)

- (1) cost expenditures for certain service departments and auxiliary activities;
- (2) cost expenditures for the operation and maintenance departments; and
- (3) cost expenditures for instruction in terms of the students taught.

The first two of these are internal accounting procedures used for effective management of the departments concerned. The third relates to the subject of this study. However, in place of expenditures in terms of students taught, this study deals with expenditures in terms of programs offered. In dealing with the third phase, costs are classified according to the following outline by Scheps:

1. Departmental or college expenditures;
 - a. salaries,
 - b. teaching supplies,
 - c. departmental or college administration.

⁴The writer found few recent sources of information in the library on educational accounting.

2. Overhead;
 - a. institutional administration,
 - b. library,
 - c. physical plant.

The study adopts most of this approach in its expenditure break-down system (Chapter 3). The balance of this reference concerned itself with a manual technique for determining unit costs per student hour and contributed little to the problems of this study.

The emphasis in the literature on the cost of instructional programs per student contact hour cannot be completely ignored. Therefore, this study will make the cost-per-hour computation. However, its meaning and use must be tempered by arguments presented in the foregoing paragraphs.

2.2 Budgeting and PPBS

The Western Interstate Commission for Higher Education and the American Council on Education have been devoting considerable effort to the problem of effective educational management (5). They currently are more interested in the areas of information systems and analytical models than in expenditure reporting. Their studies have, however, pointed up a problem which has been succinctly stated by Burkhead (18, p. 139).

There is no precise definition of performance (program) budgeting . . . it has come to mean something different in every jurisdiction which puts it into operation.

The literature supports this statement many times over. (To help deal with this problem, the previous section on definition of terms was included.)

This study, as indicated in the previous chapter, has taken the view that budgeting and expenditure reporting are not similar terms. Using Wildavsky's (19, p. 1) definition that:

. . . since funds are limited and have to be divided in one way or another, the budget becomes a mechanism for making choices among alternative expenditures . . . ,

we see that expenditure reports are those actual costs which are compared with the budget "figures" to determine how well the management process is proceeding. Budgeting is estimation in terms of the data being reported while expenditure reporting is actual.

In the literature there are many books, articles, studies, and conferences which deal with the problems of budgeting. In particular, since the advent of PPBS, the educational literature on this subject has almost reached the point of saturation. ERIC alone has several pages of listings each year about school finance and PPBS. However, almost without exception, these reports on budgeting and PPBS do not discuss one of the essential characteristics of a useful accounting system in that it "should facilitate meaningful measurement of the total (emphasis the writer) money costs of accomplishing defined objectives" (20).

The terms "cost-effectiveness" and "program costs" primarily mean budget allocation in the literature. And, more importantly, these terms almost always exclude indirect costs from consideration. For example, when the Western New York School Study Council (21) studied PPBS in local schools, there was considerable discussion about cost-effectiveness. However, there was no mention of expenditure reporting or allocation of indirect costs to the instructional program. A similar situation occurs in a series of readings in school finance and business management edited by Benson (22). Even the educational consulting firm Research for Better Schools Incorporated, did not see fit to mention expenditure reporting or indirect cost allocation when promoting a theory of cost effectiveness (23). Writers in the field of school finance such as Finch, Corbally, and others (24, 25, 26, 27) spend a great deal of time discussing budget and the budgeting process, but little or no time offering suggestions on expenditure reporting systems which would give total costs for instructional programs.

Several authors have developed systems of instructional costs through some unit of measure. Hubbard (28) used cost per student credit hour but he did not include indirect costs. Wohlferd (29), writing in the Educational Forum, makes a strong case for program cost allocation, but does not suggest a method for its implementation. Scales (30) and Cage (et al), (31) used cost per full time equivalent

student and cost per student contact hour respectively.

The studies by Scales and Cage (30, 31) were the only two found in the literature which were both community college oriented and concerned with instructional costs. The research by Cage involved a comparison of selected educational programs in the community colleges of Iowa. He chose to use cost per student contact hour and arrived at this ratio by arbitrarily assigning all costs on a pro-rated basis. Scales, in his study, developed costs per FTE student for each category of school operation (such as administration, instruction, supplies, etc.). This was accomplished by dividing the total FTE into the appropriate budgeted figures. There was no attempt to assign these costs into specific program totals.

These foregoing examples illustrate what is to be found in the literature on the subject of expenditure reporting and indirect cost allocation. That is, (a) there have been many studies done on the implementation of programming, planning, budget systems, and (b) there is little or no research in expenditure reporting systems or indirect cost allocation procedures for community colleges. There are, however, studies such as that done by the Systems Research Group of Toronto Canada (32) which point up the need for such allocation and reporting systems including textbooks

in the field such as the one published by the American Council on Education (9, p. 120). The result of the search of the literature leads to the conclusion that the topic of this study

1. Duplicates no previous efforts;
2. Has very little precedent from which it can draw its methodology; and
3. Should make a significant contribution to the fiscal management of community colleges.

In order to verify the findings in the literature, a cross section of community college budget and reporting systems was carefully analyzed. The result of this analysis is presented in the following section.

2.3 Survey of Current Community College Expenditure Reporting

Community college members of the Western Association of College and University Business Officers in California were polled as to their suggestions for representative community college districts in terms of their fiscal accounting procedures. From those districts suggested, nine were chosen as most representative using as guidelines (1) district size (enrollment), (2) whether urban, suburban, or rural, (3) whether primarily academic or vocationally oriented, and (4) whether the districts had some definitive budget and expenditure reporting documents.

The budget documents and expenditure reporting systems of these nine California community colleges (representing thirteen

campuses) were examined in detail to determine (1) if gross expenditure reporting by instructional program was in use at the colleges, and (2) if the budgeting process being employed was adaptable to the procedure developed by this study. The college districts involved in this review are listed in Appendix I.

The answer as to whether gross expenditure reporting by program is being implemented in the community colleges surveyed is generally a negative one. Only one district representing two colleges is moving in the direction of total program cost reporting. A study done by Brannigan (33) at Fresno City College (State Center Junior College District) developed rationale and procedures for the allocation of facility costs to instructional programs. He made no attempt to allocate other indirect costs such as administrative expenses, fixed charges, or out-of-district district tuition⁵.

The systems employed by Brannigan are based on the WICHE programming, planning, budgeting model and have applications to this study. While he made no attempt to generalize beyond Fresno City College, several of his basic assumptions in the allocation of facility costs support those made later in Chapter 3. In addition, Brannigan employed a manual method to arrive at his figures, although he did stress that a computer system for allocation of all

⁵ Out-of-district tuition is that expense paid by a college for tuition of its resident students who attend colleges in other districts.

costs to instructional programs was feasible and highly desirable.

The expenditure reporting systems of all the colleges were, in a sense, a mirror image of their budgeting programs. That is, those accounts which were line-itemed⁶ in the budget were also the accounts where expenditures were reported. While this is adequate accounting procedure, it does not lend itself to determining gross expenditures for the instructional programs. The reason is that up to 40% of the total budget of most California community colleges (34) is not directly related to instructional program costs and thus these expenses are not budgeted nor reported as program costs. For example, maintenance is generally budgeted as maintenance for a campus as a whole and the resulting expenditures are reported for the entire campus in a single account. That is, these campus-wide expenditures are not reported as instructional program expenses. Hence, the original problem of how to determine total instructional program costs remains, assuming that the colleges maintain current budgeting and expenditure reporting practices.

In reviewing this dilemma of indirect costs with business officers in the community college field (Appendix II), two alternatives became consistently clear. One alternative was to promote a change

⁶ Line-item means, in this context, an activity or expense which uniquely carries its own cost in the budget. For example, \$50 for supplies for the physics department would be a line item, while \$10,000 for the physics department would not be considered a detailed line item.

in the chart of accounts and budgeting procedure of each institution to reflect total instructional program costs. This alternative was rejected on the basis of (1) reluctance towards the suggestion by some twenty-five community college business managers with whom the idea was discussed, and (2) the relatively slow progress that WICHE (5), with all its prestige, has made in convincing institutions of higher education to incorporate PPBS. A secondary reason for rejecting this alternative is the situation in California community colleges. The California State Education Code mandates an accounting system along with a prescribed chart of accounts. However, many community colleges (including Foothill College - the example for this study) develop their own unique chart of accounts and use the state mandated accounting codes only when reporting to the Department of Education. Thus, even when conformity is required, community colleges find a way to be unique and independent.

The second alternative to this task of obtaining gross instructional program costs is one of creating a method which takes expenditures from where they are reported in the chart of accounts and reassigns them on some reasonable basis to instructional program accounts. This alternative is the one which this study implements. That is, the computer model that is developed in following chapters accomplishes the task of reassignment of indirect costs to instructional program areas within an existing chart of accounts. The

support for this alternative comes not only from the impracticality of the first alternative, but from the examination of community college budget documents (Appendix I) as well as in depth discussions with community college business managers (Appendix II). Almost without exception, the budgeting process being used by the community colleges studied were adaptable to the model developed in this study, and the respective business managers were receptive to an eventual implementation of the proposed model.

The key elements of the model's adaptability are (1) a chart of accounts which lists instructional programs, (2) a method of assigning instructors to those programs, delineation of instructional supplies, travel, and secretarial support by program, and (3) a method for determining capital outlay costs by program. In addition, a master teaching schedule indicating rooms, instructors, and contact hours of instruction must be available as well as a facilities report indicating square footage by room for the entire college. This latter requirement was met automatically by the California community colleges as facility information is a state mandated report. The other colleges of Appendix II indicated an ability to develop this facility data.

A report developed by DeRicco (35) of San Joaquin Delta College (a community college) underlines the current move towards program budgeting and the use of the computer in achieving this goal

in community colleges. For example, twenty-one of thirty-four community colleges not now employing PPBS planned to move into a PPBS format within the near future. In answer to the question of whether their community college would start maintaining separate expenditure accounts for each program, another twenty-one colleges not now having instructional program accounts indicated that program accounting was their goal. In addition, eleven community colleges said they planned to implement data processing procedures into their budget preparation and reporting.

The results of the investigation of current trends and practices in community college budgeting and expenditure reporting as revealed above and in more than a hundred hours of on-site discussions with community college business managers leads to the same conclusions drawn at the end of the previous section. That is, a need exists for a method of reassigning indirect cost in community colleges, there has been very little effort made in this area, and there would be general acceptance of a usable computer model which accurately allocated indirect expenditures and thus allow reporting of a program's total instructional costs.

CHAPTER 3

METHODOLOGY

3.1 Charts of Accounts

The last section of the previous chapter described a viable method of assigning total instructional program costs within current community college budget and expenditure reporting systems. In brief, this method is one in which a reassignment of indirect expenditures is made to specific instructional programs. In order to build a model which accomplishes this reassignment of expenditures, three considerations must first be dealt with. That is, there must be:

1. A chart of accounts upon which the model can be built;
2. A set of assumptions by which the model allocates the indirect expenditures to specific instructional program areas and;
3. A systems plan from which computer programs can be written and tested.

This chapter deals with the three tasks outlined above.

A chart of accounts essentially has two parts which, when working together, provide a location in the expenditure report for each expense regardless of its nature. The first of these parts are "area" codes. Area codes generally are attached to specific management jurisdictions or functional operations. For example,

the president's office, the physics department, or the nursing program would each have its own area code. Often area codes are numbered in a manner which provides a hierarchy of jurisdiction. That is, a college might have an area code 6274 where:

6 --- indicates School of Education;
 62 --- indicates Community College Division;
 627 --- indicates Vocational Education Department;
 6274 --- indicates Vocational Education ICE⁷ program.

The second part of a chart of accounts are the "type" codes. Type codes tell the kind (or type) of expenditure which was made. That is, salaries, rent, supplies, travel, insurance, and so on are illustrations of type codes. A type code must always be assigned to an area code. For example,

| | | |
|-------------|------|------------------------|
| (area code) | 3010 | Mathematics Department |
| (type code) | 050 | supplies |
| (type code) | 070 | travel |

While there are many different charts of accounts used in community college accounting systems, they all include area and type codes as does the model developed in this study.

As previously discussed in Section 1.3, Foothill College District is being used as the source for the data, accounting procedures, and computer implementation. Therefore, the chart of accounts used in this model is the one in use in the Foothill Community College District. It is reproduced in its entirety in

Appendix III. The area and type code numbers which appear in Appendix III are those used in the balance of this study. The schematics, flow-charts, and computer program explanations will often use the chart of account code numbers. The computer model, of course, can use only the code numbers in its computations.

The method of reassigning indirect expenditures to instructional programs becomes one of making certain area codes become type codes for instructional programs. For example, the expenses assigned to the area code "administration" would become a type code expense assigned to an area code "vocational nursing program". That is, the expenditures under vocational nursing would be increased by its share of the expenditures which had been reported under administration.

The task then, is to separate the area codes in the chart of accounts into those identified with indirect costs and those identified with specific instructional programs (direct costs). The chart of accounts of Appendix III provides the necessary information.

A. Indirect Costs

District Administration

- 0101 Superintendent's office expenses
- 0102 Board of Trustees expenses
- 0103 Miscellaneous district-wide expenses
- 0201 Director of educational services office
- 0211 Certificated personnel expenses
- 0212 Classified personnel expenses
- 0221 Instructional research and analysis
- 0228 Grant application expenses

⁷ ICE represents Individualized Curriculum in Electronics.

District Business Services

- 0401 Business office general expenses
- 0402 Accounting service expenses
- 0403 Purchasing office
- 0801 Fixed charges-insurance

District Community Services

- 0261 Short courses
- 0262 Community chorus
- 0263 Community chamber orchestra
- 0264 Community symphony orchestra

District Technical Education Administration

- 0231 Technical education general office expenses

District Wide Tuition⁸

- 1439 Tuition expenses

District Plant Operation

- 6106-6901 Plant operation expenses

District Maintenance Services

- 7101-7302 Plant maintenance expenses

Campus Administration

- 2001 President's office expenses
- 2002 Dean of Instruction office expenses
- 2005 Evening and summer administration
- 2006 Evening and summer counseling
- 2008 Evening and summer clerical expenses
- 2010 Non-departmental faculty expenses
- 2015 Faculty senate expenses
- 2016 Campus committee expenses
- 2017-2029 Miscellaneous campus-wide expenses

Campus Student Personnel Services

- 2031 Dean of Student's office expense
- 2032 Registrar's office
- 2034 Testing service expense

⁸Tuition expense for district residents attending the community colleges. See footnote 5.

Campus Student Personnel Services (Cont'd)

- 2035 Counselor's expense (salaries)
- 2036 Student financial aids office expense
- 2037 Student activities expenses
- 2038 Graduation expenses
- 2039 Placement office expenses

Campus Library Services

- 2050 Library operation expenses
- 2055 Audio visual operation expenses

Campus Plant Operation

- 6101-6901 Plant operation expenses

Campus Maintenance Services

- 7101-7302 Plant maintenance expenses

Division Administration

- 2*01 Division office general expenses
- 2*02 Division miscellaneous expenses

(* is replaced by 1, 2, 3, 4, 5, 6, 7, 8, 9 respectively)

Health Services

- 4101 Athletic training expenses
- 4201 School nurse expenses

B. Direct Costs

- 2112-2127 Biological and health science instructional programs;
- 2220-2250 Business and data processing instructional programs;
- 2311-2391 Engineering and technology instructional programs;
- 2411-2434 Fine arts instructional programs;
- 2510-2540 Language arts instructional programs;
- 2611 Ethnic studies instructional programs;

Direct Costs (Cont'd.)

- 2711-2729 Physical education and athletic instructional programs;
- 2810-2861 Physical science instructional programs;
- 2905-2956 Social science instructional programs.

This division of the area codes of the chart of accounts into indirect and direct expenditures does not include all the area codes listed in Appendix III. The balance of the area codes not categorized above fall into two groups. The first group includes area codes not considered in this study since they are specially funded administrative departments. They are:

- 1101-1171 Community services;
- 1201-1270 Building program.

The second group includes area codes that will show a zero expenditure balance at the end of the fiscal year through the process of their direct billing to other departments. Thus these area code expenditures will have already been accounted for in the list of indirect and direct area codes developed above. That is, they are area codes for internal accounting purposes only. These area codes are:

- 0802-0804 Payroll charges;
- 0921-0930 Campus center;
- 1191-1199 Auxiliary services;
- 3001-3100 Stores;
- 0404 Data services;
- 0109 Undistributed reserves;
- 2011 Instructional salaries.

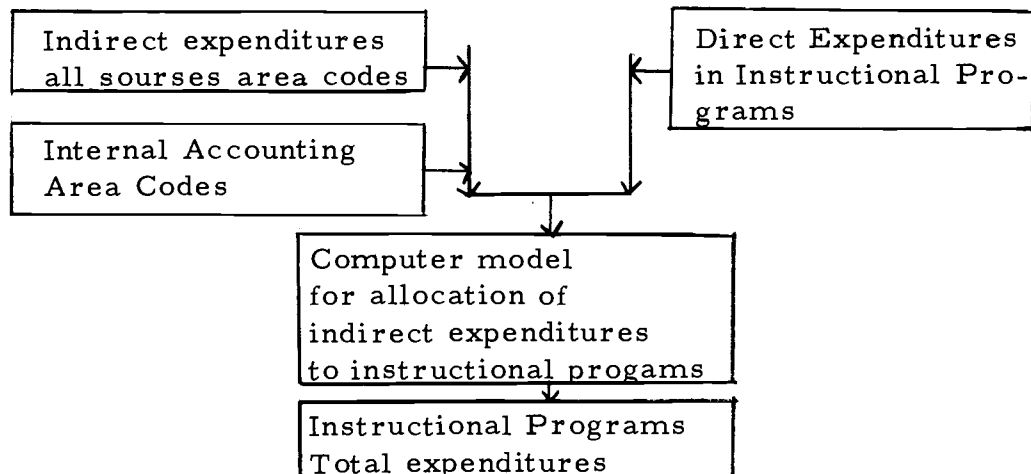
This foregoing classification of area codes can be summarized as categories as illustrated in the chart of Figure 4. The intent of the model is to reassign

FIGURE 4.

| Chart of Accounts Area Code | |
|---|--|
| Indirect expenditures of all sources Area Codes | Direct expenditures for instructional pro- grams Area Codes |
| Special funds Area Codes | Internal Accounting Area Codes |

these area code categories illustrated in Figure 4 to those categories of Figure 5. The process of reassigning internal accounting area codes is always an automatic function of the current accounting system. Its relationship is shown for the sake of completeness.

FIGURE 5:



Type codes have been ignored since the expenditures listed under these codes are subsidiary to the area codes. That is, the sum of the type code expenditures assigned to an area code becomes the total expenditure for that given area code. The following example illustrates area and type codes in an instructional program expenditure account as it would appear in an expense report.

| | | | |
|-------------|------|--------------------------------|-------------|
| (area code) | 2116 | Medical Assisting | |
| (type code) | 013 | Certificated contract salaries | \$13,000.00 |
| | 030 | Supplies | 500.00 |
| | 048 | Uniforms | 30.00 |
| | 081 | Consultants | 150.00 |
| | 2116 | Area total-direct | \$13,680.00 |

The indirect expense allocation model developed in this chapter and the following chapter would determine an appropriate indirect expenditure allocation for the Medical Assisting program. This indirect expense allocation would then be assigned to area code 2116 and the adjusted report would appear similar to the following:

| | | |
|------|------------------------------------|-------------|
| 2116 | Medical Assisting | |
| 013 | Certificated contract salaries | \$13,000.00 |
| 030 | Supplies | 500.00 |
| 048 | Uniforms | 30.00 |
| 081 | Consultants | 150.00 |
| | Indirect expenditures ⁹ | 233.30 |
| 2116 | Area total-gross expenditures | \$13,913.30 |

However, the foregoing example would be applicable to the Foothill District only and would not provide a very large measure of wide use among community colleges. Therefore, the simulation model develops a more general program allocation report which

can be adapted by many different community colleges (Appendix II).

An example of the format of this generalized report is as follows⁹:

| | | |
|-------------------------------------|------------|----------|
| Program 2951 | | |
| Division Overhead | \$xxxx, xx | |
| Campus Administration Overhead | xxxx, xx | |
| District Overhead | xxxx, xx | |
| Vocational Education Administration | xxxx, xx | |
| Field Maintenance | xxxx, xx | |
| Pool Maintenance | xxxx, xx | |
| Campus Maintenance | xxxx, xx | |
| Subtotal - Indirect Costs | | xxxx, xx |
| Evening Salaries | | xxxx, xx |
| Program Direct Costs | | xxxx, xx |
| Program Total Costs | | xxxx, xx |
| Total Instructional Hours | xxxx, xx | |
| Cost Per Instructional Hour | | xxxx, xx |

Section 3.2 deals with the assumptions by which the total indirect expenditures are allocated to the various instructional programs (similar to the manner illustrated above).

3.2 Indirect Expenditure Allocation Assumptions

The basic assumptions for the system of allocation came from the review of the literature of Chapter 2, in depth interviews with community college business officers and educational administrators (Appendix II) as well as the work done by WICHE (5) and Brannigan (33). In addition, a final review of these assumptions and their implications for indirect expenditure allocation was made to a jury of community college experts. The individuals on this panel were

⁹The actual computer printout uses some abbreviations and slightly different spacing. See Chapter 5.

chosen for their particular expertise in either accounting or computer science as well as providing a typical cross section of community college fiscal management systems. The panel consisted of:

Foothill College District¹⁰
 Director of Business Services
 Controller of Accounting Services
 Director of Data Processing
 Systems Engineer, Accounting Services
 Senior Programmer, Data Services
 Administrative Analyst, Educational Services

Others
 Associate Chancellor for Finance, California Community Colleges
 President, Lane Community College
 Administrative Assistant, Central Oregon Community College
 Administrative Assistant, Ohlone Community College
 Business Manager, Lassen Community College District

The suggestions of this jury have been incorporated into the following assumptions: (where appropriate for clarity, a rationale is stated)

- A. The end product of the college is education of students in specific instructional programs. This education is generally achieved through participation in a classroom activity. A classroom is "used" when scheduled for class instruction regardless of the number of students in attendance. (That is, no other class may use that room for that particular period of time.)

¹⁰ The model was implemented, tested, and corrected with Foothill College's data and computer.

- B. The total of all classes scheduled and taught for a fiscal year from 8:00 a. m. to 11:00 p. m. or other appropriate time blocks generates a gross total of instructional hours the college (or district) provides the community.

Note: This gross total of instructional hours will be called the TIH of the college.

Rationale: The evening college and summer session uses all campus facilities in the same manner as the day school. These sessions are an integral part of the instructional package which the districts offer the community.

- C. The district administration (with exceptions outlined below) and the district physical plant operation and maintenance expenditures should be allocated on the basis of total instructional hours. This allocation creates a rate per instructional hour for the district's contribution to the total expense of the end product (instructional program).

Note: This rate for the district's administrative and operational expenditures per instructional hour will be referred to as DE/IH.

Rationale: District wide expenditures relate directly to the common denominator of the college which is hours of instruction in program areas. (Further discussion of this position is found in Assumption D.)

D. The district administrative and operational expenditures in the DE/IH include the following areas:

1. Tuition expense: rationale - the cost of not operating an instructional program should be borne by those programs being operated;
2. District wide expense, Board of Trustees, superintendents office: rationale - these officers have responsibility under the Education Code for the totality of the district's educational program;
3. Educational services, research, adult community activities: rationale - these services generally account for only 6/10 of 1% of total budget. A minimal effect is created when spread across total instructional hours.
4. Business services, accounting, material services, grants: rationale - these services benefit total districts;
5. Fixed charges (insurance): rationale - insurance (non-salary) generally is in blanket form thus there is no way to separate liability from property - less than 1% of total budget;

6. Operation and maintenance of district office facilities:

rationale - these facilities are required to support the above activities and thus are a part of their cost.

District expenditures which are not included in the DE/IH are as follows:

1. Undistributed reserve: rationale - this is a contingency account from which funds are allocated to an area code account before the funds are expended;
2. Technical education: rationale - see rationale of Assumption E;
3. Data services, field trips, duplicating services, stores: rationale - these expenditures are charged directly to the consumer;
4. Payroll charges: rationale - see Assumption F.

E. Technical education administration is a special interest service and its cost should be borne only by those courses identified as vocational education. These expenditures will be allocated on a per instructional hour basis for those instructional hours identified as vocational education.

Note: The rate of vocational administration expenditures per instructional hour of vocational education instruction will be referred to as VE/VIH;

Rationale: This expense is reimbursable in each vocational program under the Vocational Education Act Amendments of 1968.

F. Payroll charges are directly related to individuals employed. These expenses should be charged to the same instructional program or service area where the respective salaries are carried as a direct expense.

G. All classrooms, regardless of type, should be treated equally in terms of maintenance and custodial effort with the only distinction being size.

Rationale: (a) The cost of utilities generated by laboratories is negligible when compared to the total utilities expenditure of the district;
 (b) There is little custodial expenditure difference between laboratories and general purpose classrooms since most laboratories have technicians who perform some custodial tasks (and these technicians are already a direct expense to that instructional program); and
 (c) To allow all instructional programs to share in all maintenance costs is equitable since many programs often require a basic laboratory for graduation (i. e. mathematics requires physics).

H. Field facilities and swimming pool indirect expenditures for operation and maintenance will not be included in the general maintenance costs of classrooms and laboratories discussed in Assumption G above.

I. A cost factor based on instructional hours and classroom assignable square footage will be used to allocate maintenance costs to instructional programs. The following are the formulas used:

$$\text{CMCF}^{11} = \frac{\sum (\text{campus operation/maintenance costs})}{\text{All college classes} \times \sum_{i=1} (\text{class}_i \text{ TIH}) \times (\text{classroom}_i \text{ ASF})}$$

Program

Maintenance

Program classes
 allocation = (CMCF) x $\left(\sum_{j=1} (\text{class}_j \text{ TIH}) \times (\text{classroom}_j \text{ ASF}) \right);$

- Rationale:
- (a) A room needs maintenance in terms of actual use;
 - (b) Increased use of the facilities would lower the hourly rate - a fixed charge would not have this advantage;
 - (c) This cost procedure parallels the allocation method of other indirect expenditures in its use of instructional hours; and
 - (d) The maintenance costs of ancillary ASF (all floor space not used for instructional classrooms) must be borne by the instructional programs of the college.

J. There will be a campus administrative rate per instructional hour similar to the DE/IH. This rate will include:

- 1. President's office, Dean of Instructions' office, evening college administration, and miscellaneous campus wide services; rationale - these activities are all related to the implementation of the instructional program and the resulting hours of instruction.

¹¹CMCF = campus maintenance cost factor.

2. Student personnel services, health services; rationale - these activities services students who are enrolled in the instructional program, thus they become an expense of instruction.
3. Library services, audio visual services; rationale - library operation is an outcome of instructional classes offered (in a community college) rather than number of students enrolled. Use of the library tends to be self equalizing in that the programs offering the most instructional hours tend to need the library services the most (i. e. , language arts versus physics).

Note: This rate of campus administration expenditures per instructional hour will be referred to as CE/IH.

- K. Salaries of certificated instructors assigned to an instructional division will be pro-rated on the basis of actual courses taught to the instructional programs of that division. (These salaries are considered direct expenditures.)
- L. Salaries of classified employees and general office expenditures of an instructional division will be considered as indirect expenditures for that division. These indirect expenditures will be allocated on a per-instructional-hour basis to the instructional programs offered by that division.

Note: This rate per instructional hour for indirect expenditures of a division will be referred to as DIE/DIH.

- M. There will be a master schedule of classes and facilities which will provide the necessary identification data to isolate general instructional programs, classrooms, ASF, and vocational programs.
- N. The chart of accounts and master schedules of classrooms, classes, and facilities will be in the form of a matrix to provide flexibility for change. That is, any change in this type of data will cause a change only in the respective matrix, rather than in the manipulative process of the computer program.
- O. The implementation of the indirect expenditure allocation will be based on the fiscal year end (June 30th) monthly budget report.
- P. The master schedules of classrooms, classes, and facilities will be summed over the three academic quarters and summer session to provide a total of fiscal year instructional activity.¹²
- Q. Ancillary computer program outputs will be available at the discretion of the user. These optional outputs will be provided for in the computer model, but their implementation and format will not be a part of this study.¹³

¹²This process of summarizing master schedules is a separate computer program and not part of this study.

¹³Two ancillary programs are included in the study. The programs are found in Section 4.3 while the data output from these programs is found in Section 5.2.

- R. The adaptability of the model to a single campus operation will be provided. The primary difference is allocation of maintenance costs and the distinction between DE/IH and CE/IH. In a single campus district, $DE = CE$.

The foregoing assumptions provide the problem definition and parameters for building the computer program. These assumptions, along with the chart of accounts, are illustrated in a schematic fashion in the following section.

3.3 Schematics of the Model

A review of the symbols developed in the previous section yields:

1. DE/IH = district administrative expenditures per instructional hour;
2. CE/IH = campus administrative expenditures per instructional hour;
3. CM/CF = campus maintenance cost factor;
4. VE/VIH = vocational education administration expenditures per instructional hour of vocational education instruction; and
5. DIE/DIH = instructional division indirect expenditures per instructional hour of that division.

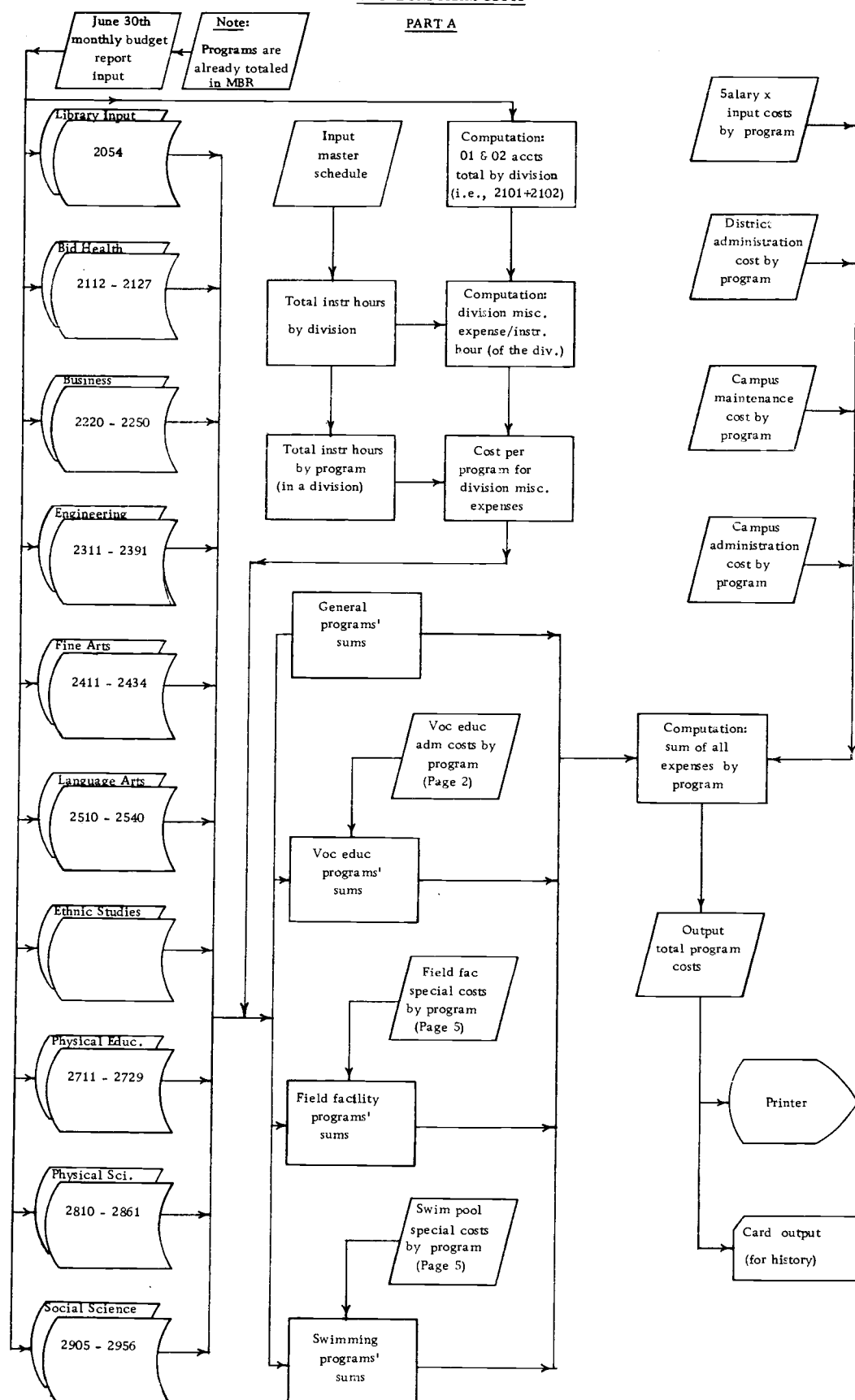
The following schematics illustrate the functional implementation of the model. They are arranged as:

- | | |
|---------|--|
| Part A: | Total program expenditures are summed in this chart. Each subsystem input is diagrammed in Parts B, C, D, E and F. |
| Part B: | District administration expenditures which generates DE/IH ; |
| Part C: | District vocational education administration expenditures which generates VE/VIH ; |

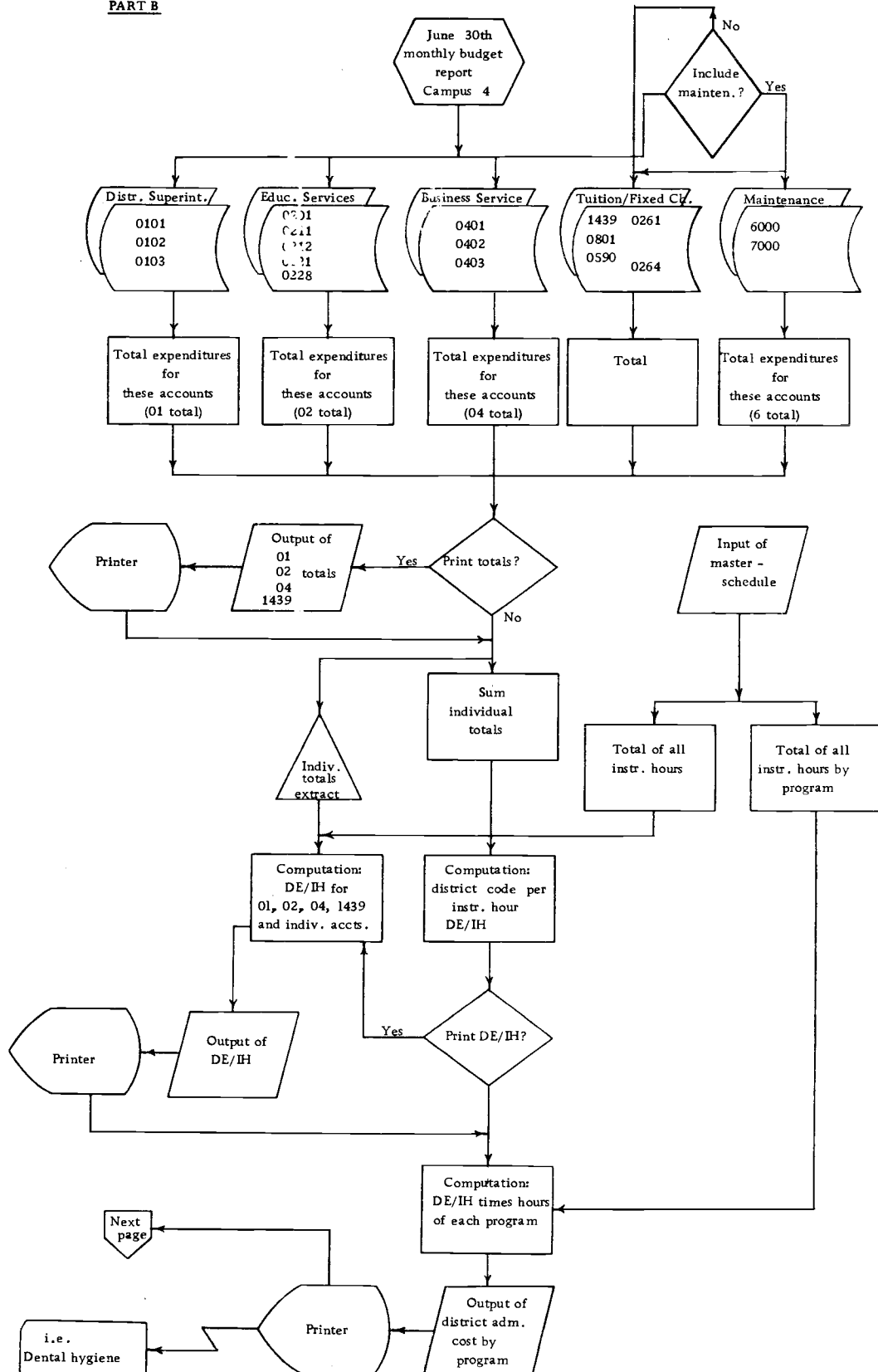
- Part D: Campus administration expenditures which generates CE/IH;
- Part E: Campus operation and maintenance expenditures which generates CM/ASF/IH; and
- Part F: Special expenses for field facilities and swimming pools.

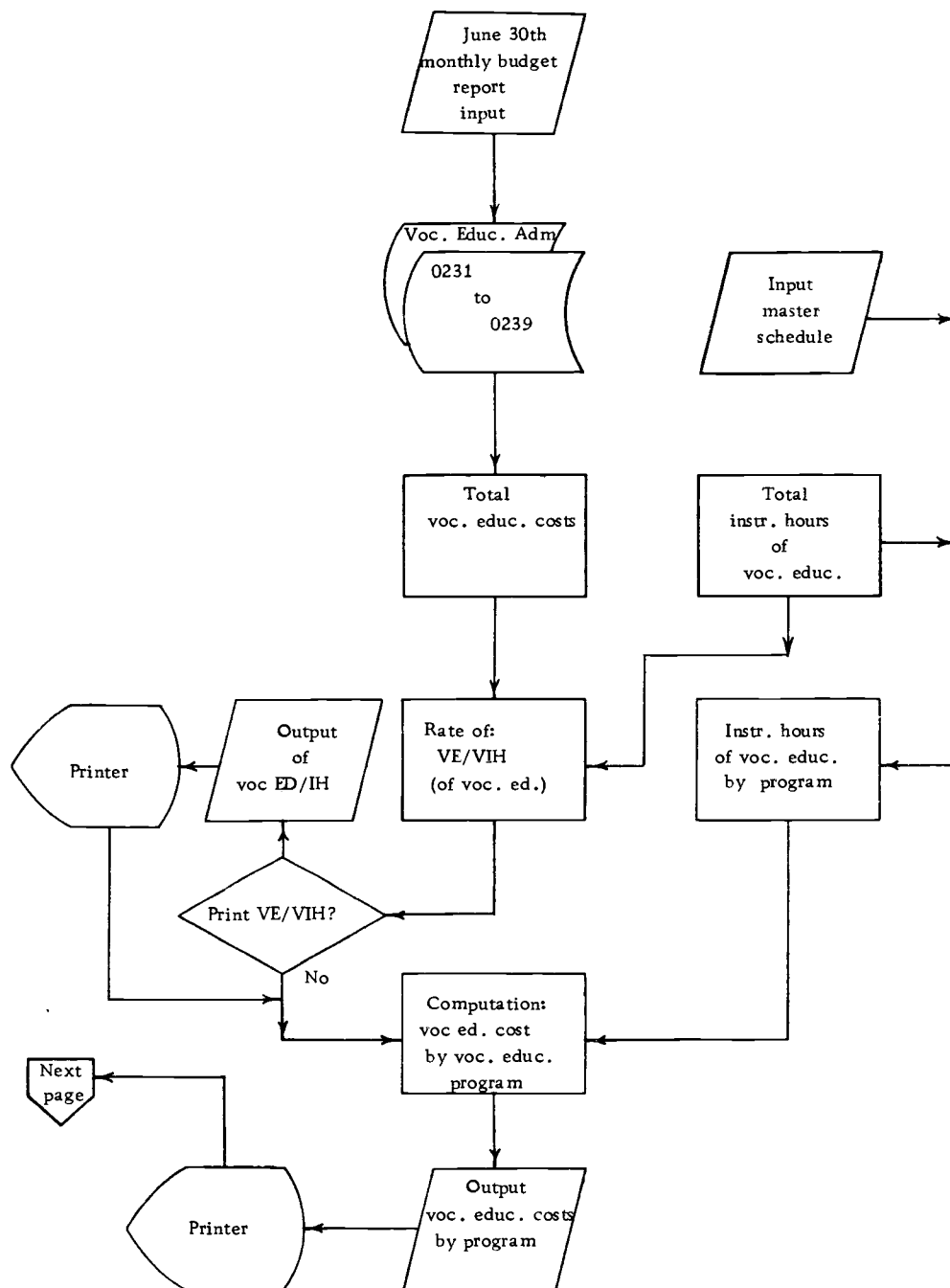
TOTAL PROGRAM COSTS

PART A



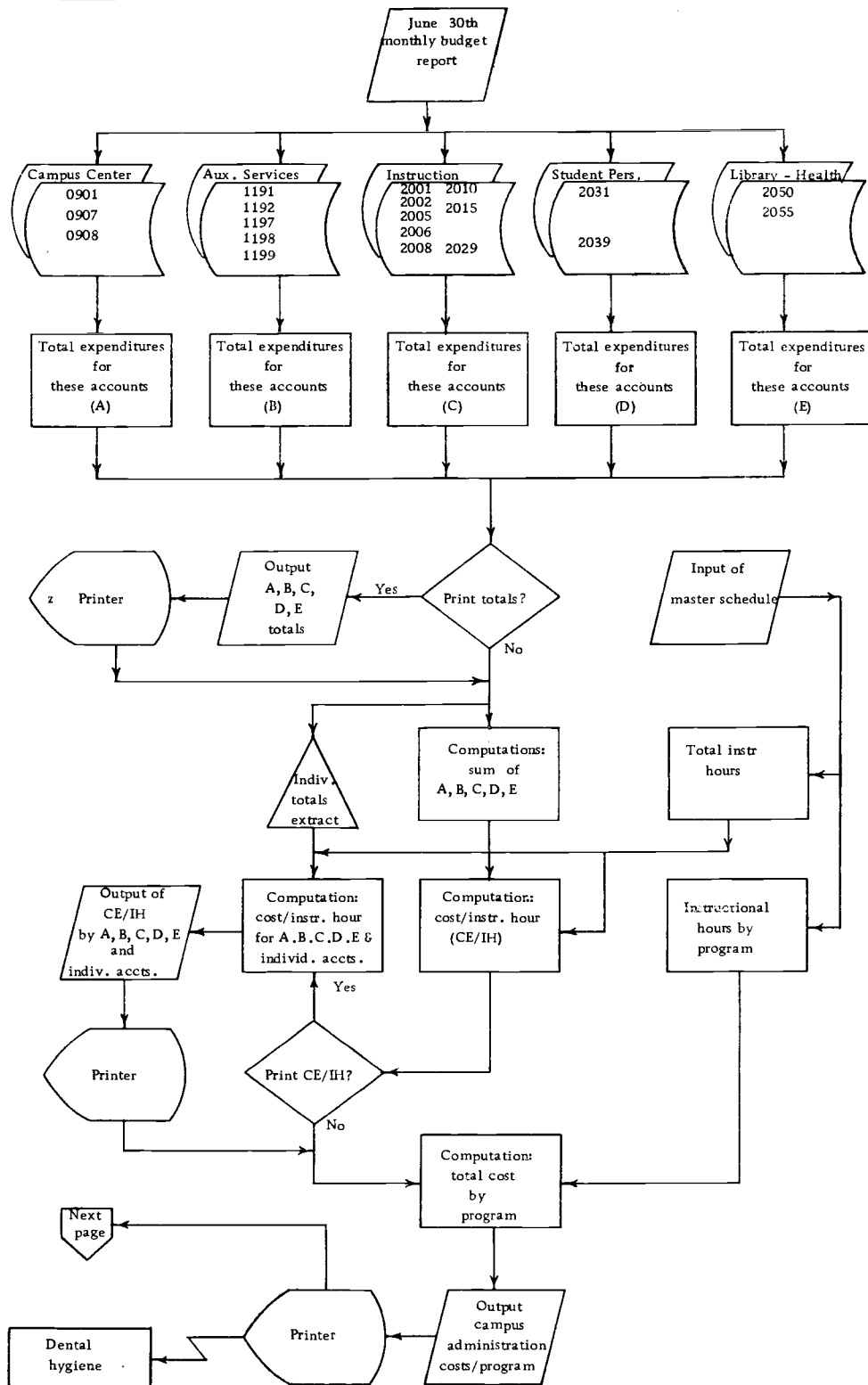
PART B



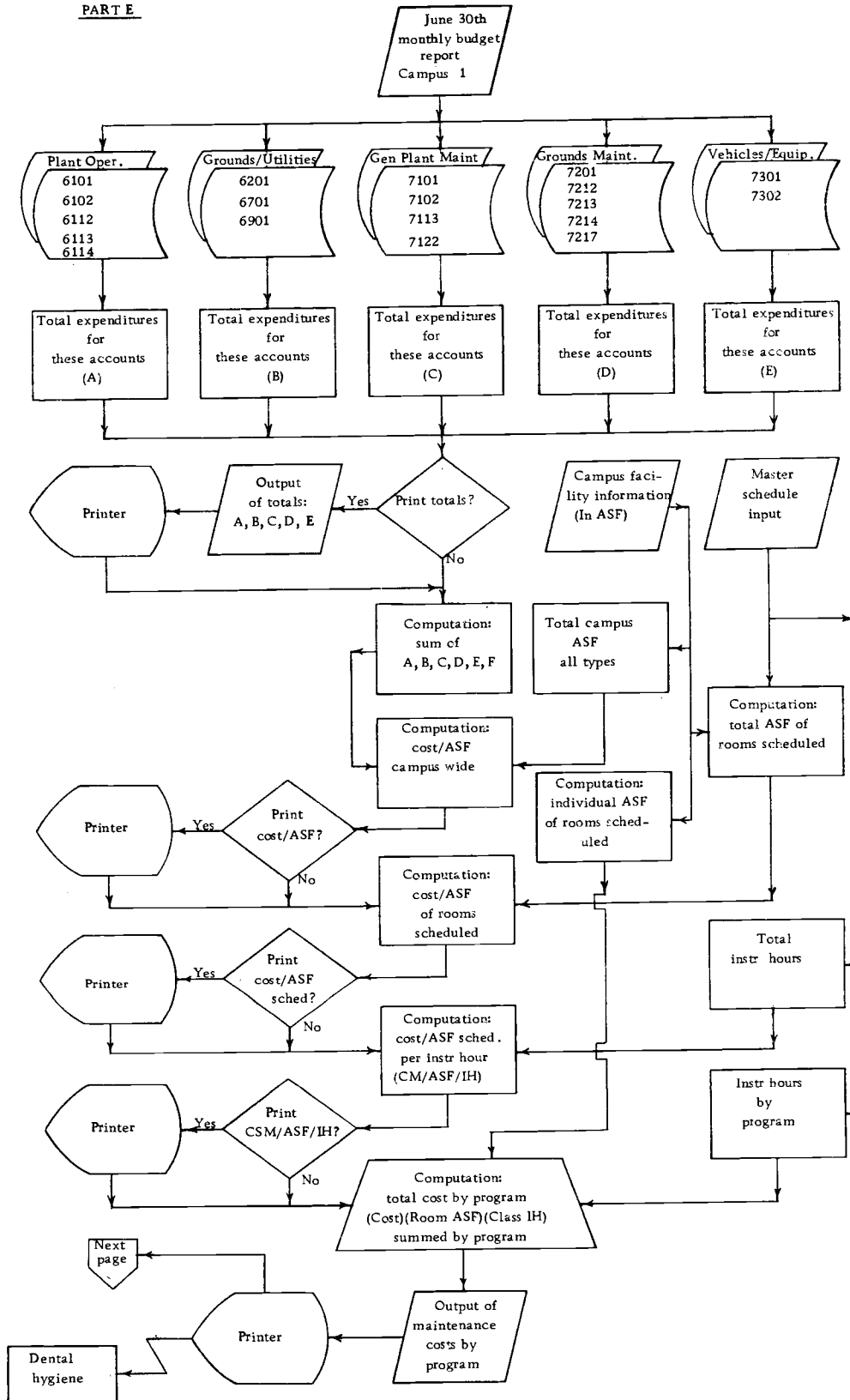
DISTRICT VOCATIONAL EDUCATION ADMINISTRATIONPART C

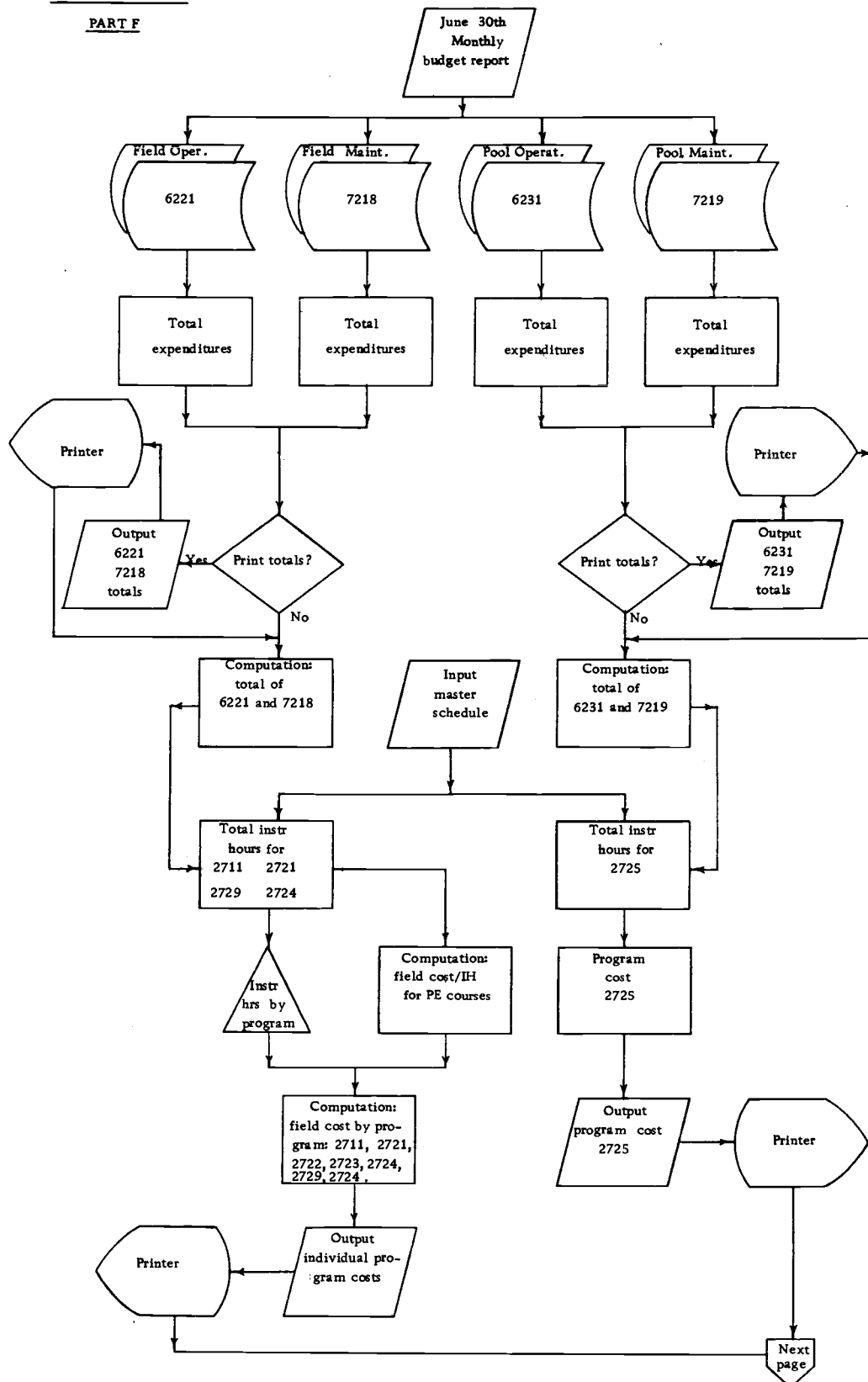
CAMPUS ADMINISTRATION

PART D



PART E



SPECIAL FACILITIESPART F

CHAPTER 4

SYSTEM ANALYSIS AND COMPUTER CODING

4.1 System Flowcharts

The data output (Section 5.1) of the simulation model is derived from a basic computer program which uses as input data the data output results of two subsidiary computer programs. The following names have been given to these programs:

- A. MER (monthly expenditure report) Data Summary Report;
- B. Class Master File Data Summary Report;
- C. Instructional Program Total Cost Report.

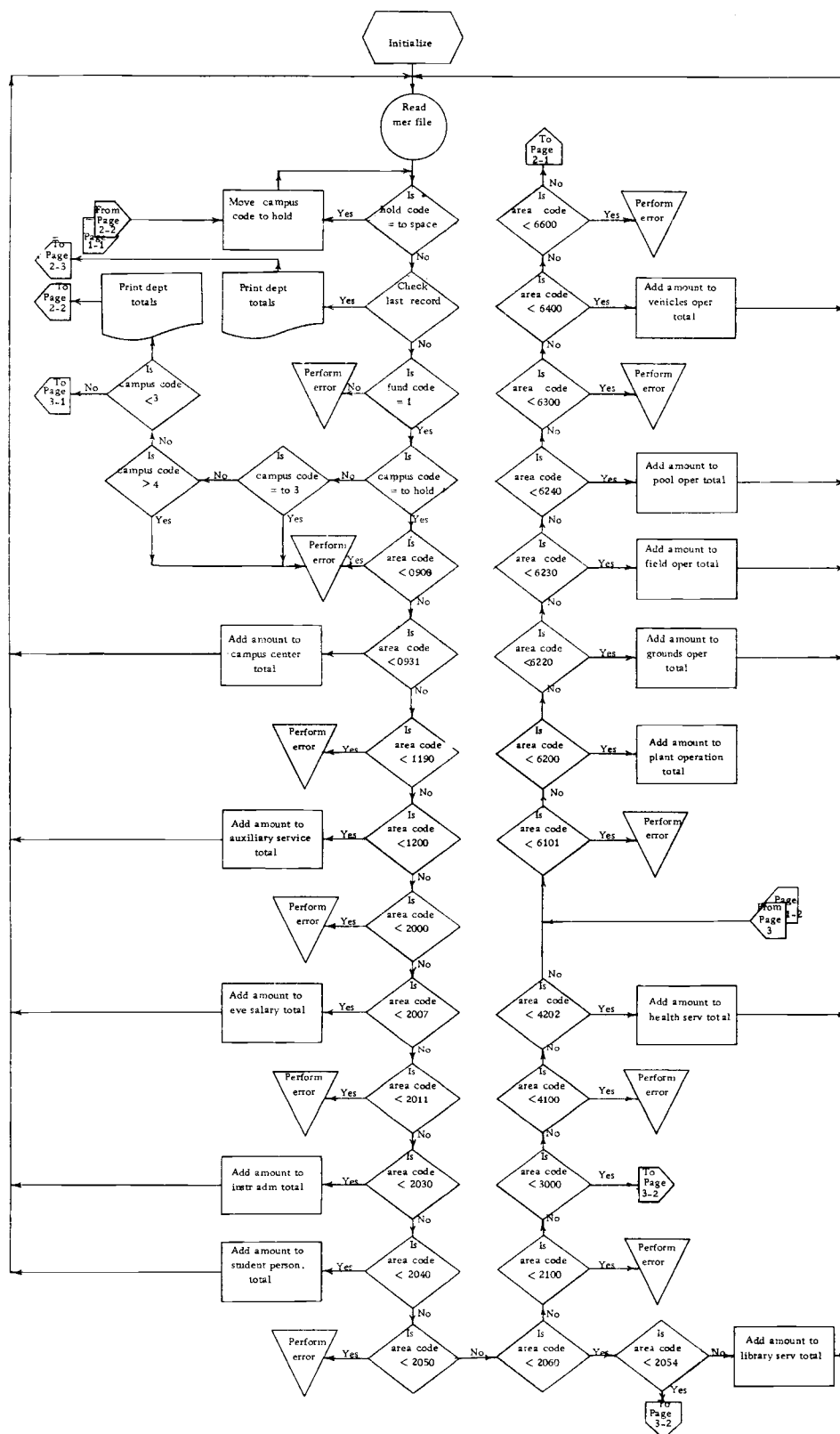
The system flowcharts were developed to help facilitate an appropriate analysis of the logic involved in the writing of the computer programs found in the following two sections of this study.

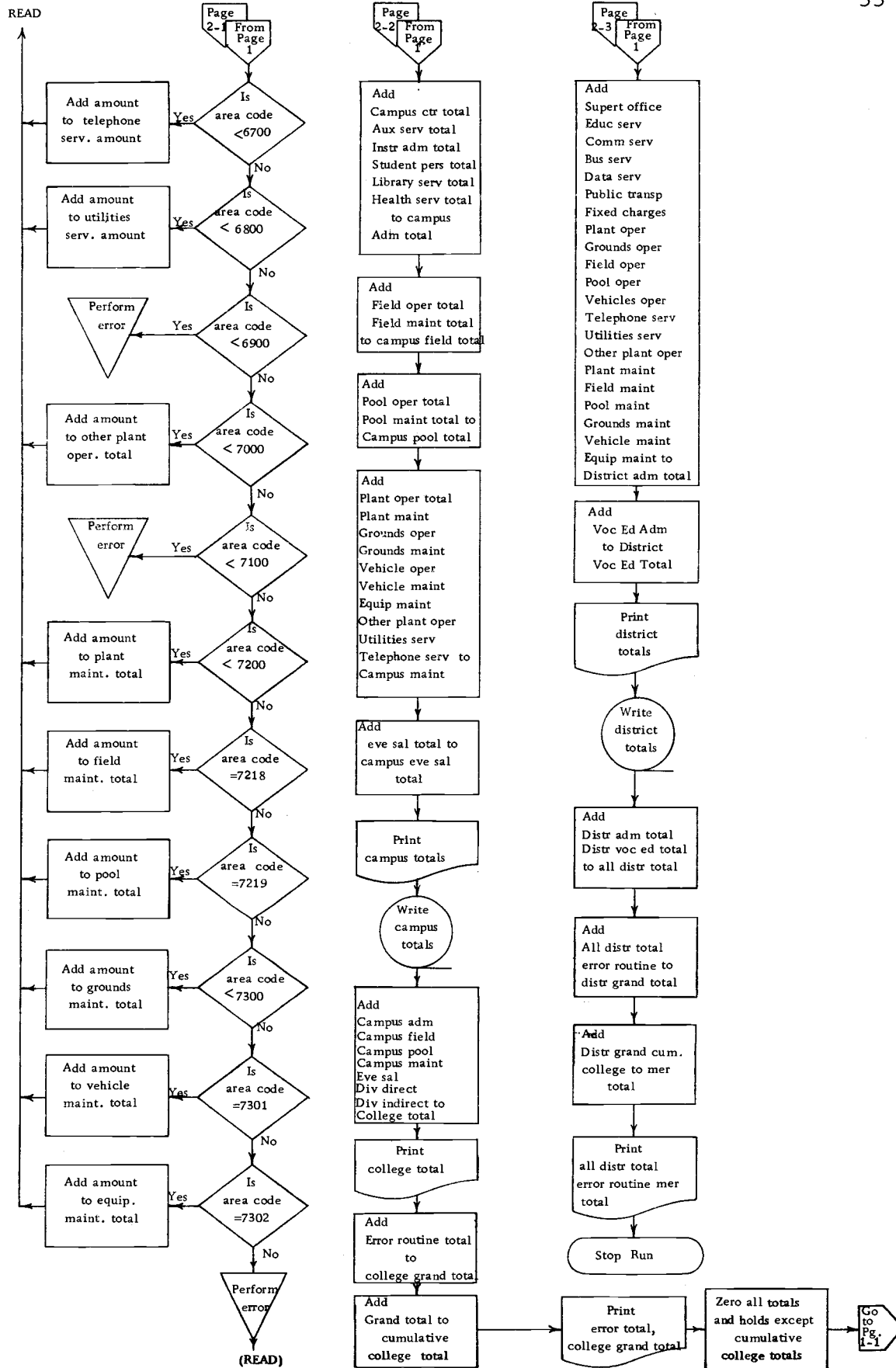
In the schematics of Section 3.3, the MER Data Summary Report flowchart and computer program generates as output the data segment entitled 'June 30th Monthly Budget Report Input'. That is, the output of the MER Data Summary Report program is input to the Instructional Program Total Cost Report computer program. Similarly, the Class Master File Summary Data Report flowchart and computer program generates as its output the data segment found in the schematics entitled 'Input Master Schedule'. Again, the output of this particular computer program is input to a succeeding

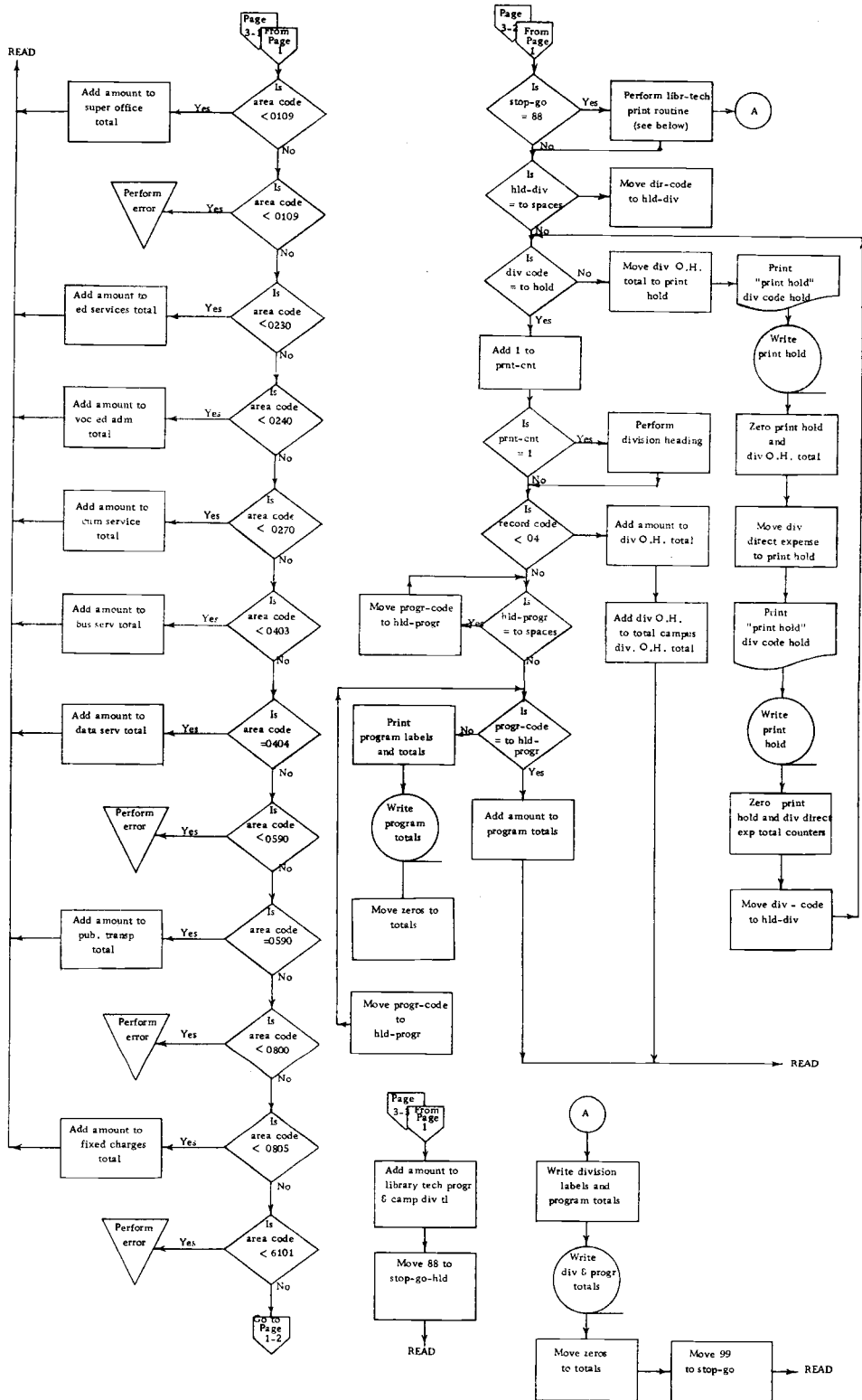
computer program. The Instructional Program Total Cost Report computer program is the succeeding program of both the previous cases and is the program which collates all the schematics of Section 3.3 and yields the basic simulation data output of Schematic A. Thus the system flowcharts which follow are an integral part of the computer simulation model.

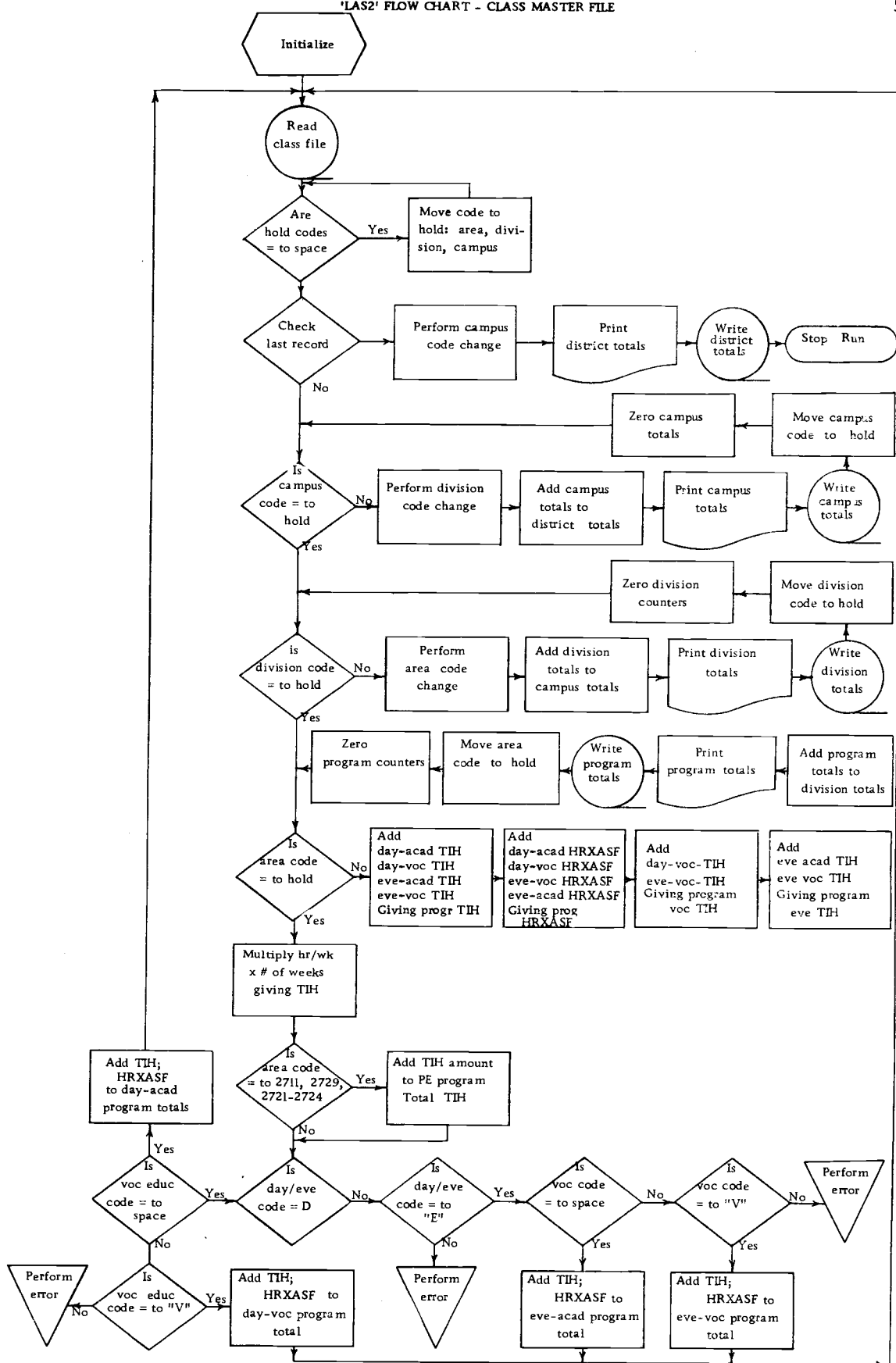
In order to verify that the simulation model logic is correct and that the output data accurately reflects the input data being handled, various data control checks were established. These data checks are a part of the system 360/COBOL logic and verified that the output data was accurate.

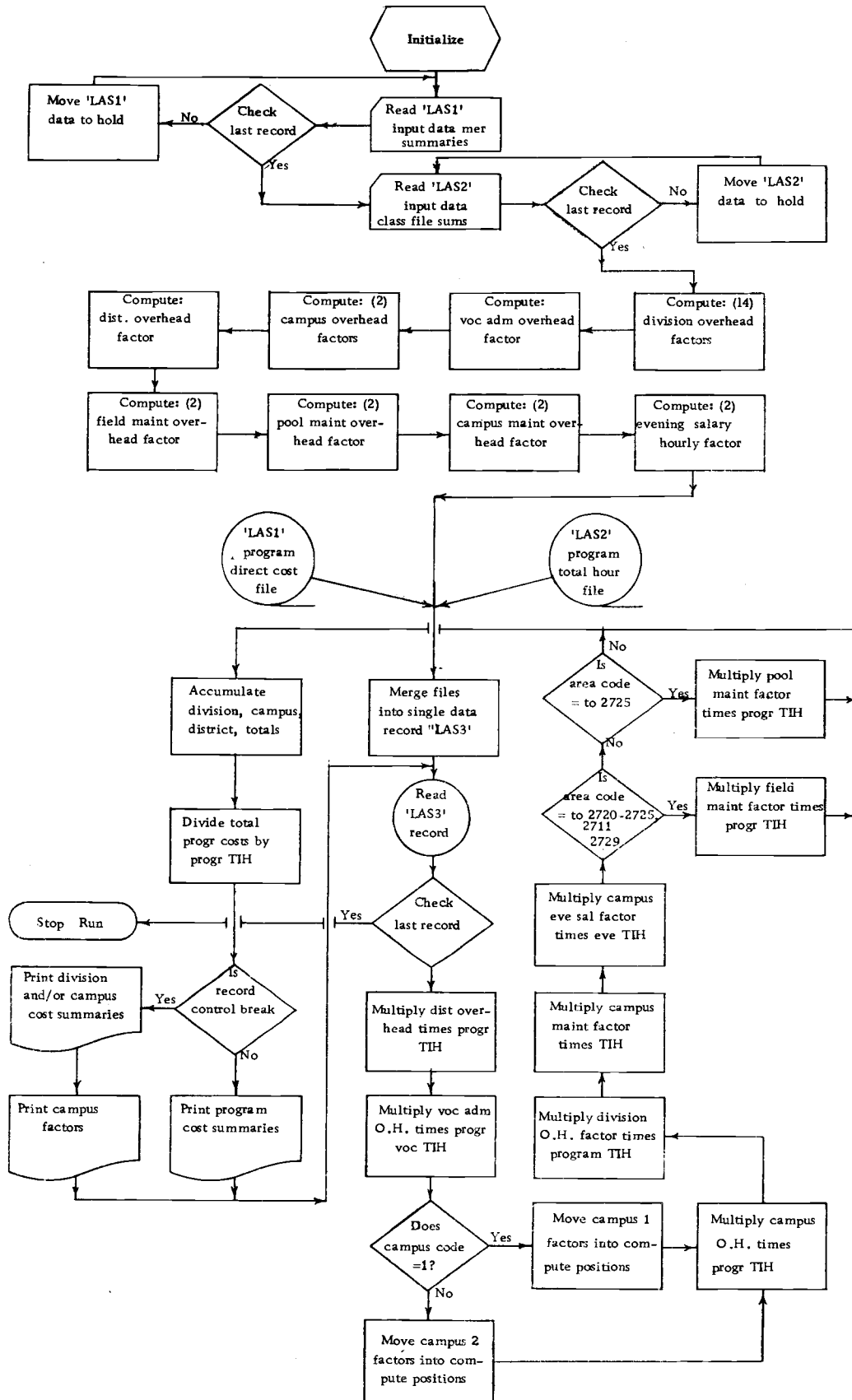
The reading of the simulation program output requires the use of the Chart of Accounts found in Appendix III. The input data files of "LAS3" are found in Appendix IV.











4.2 Main Program System

The Instructional Program Total Cost Report computer program follows.¹⁴ This computer program generates the basic data report described in Section 3.1. The program was developed and written in COBOL/360. COBOL is a specific computer coding language named after the Conference on Business Oriented Languages. The 360 signifies the IBM-360 computer for which specific COBOL computer coding procedures are required.

The program language, spelling, and punctuation which appears on the succeeding pages of this section and the following sections is exact and a characteristic of the COBOL programming language. The logic of the program follows the assumptions and formulas developed in Chapter 3. The language of COBOL is very similar to normal grammatical statements and the thrust of the logic of the program can be determined with the use of the system flow charts of Section 4.1.

¹⁴The computer identification for this program is "LAS3".

PMAP=0,OMAP=0
IDENTIFICATION DIVISION.
PROGRAM-ID. 'LAS3'.
AUTHOR. LEE STEVENS.
INSTALLATION. FOOTHILL COMMUNITY COLLEGE DISTRICT.
DATE-WRITTEN. OCTOBER, 1971.
REMARKS. THIS PROGRAM ALLOCATES BOTH MER COSTS AND
TOTAL INSTRUCTION HOURS TO INSTRUCTION
PROGRAMS.
ENVIRONMENT DIVISION.
CONFIGURATION SECTION.
SOURCE-COMPUTER. IBM-360 G40.
OBJECT-COMPUTER. IBM-360 G40.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
SELECT MER-TOTALS ASSIGN TO 'SYS010' UNIT-RECORD 2540R.
SELECT TIH-TOTALS ASSIGN TO 'SYS014' UNIT-RECORD 2540R.
SELECT PRINTER ASSIGN TO 'SYS012' UNIT-RECORD 1403.
SELECT PRGR-COST-FILE ASSIGN TO 'SYS014' UTILITY 2314.
SELECT PRGR-HR-FILE ASSIGN TO 'SYS015' UTILITY 2314.
SELECT PRGR-MERGE-FILE ASSIGN TO 'SYS016' UTILITY 2314.
DATA DIVISION.
FILE SECTION.
FC MER-TOTALS
RECORDING MODE IS F
RECORD CONTAINS 80 CHARACTERS
LABEL RECORDS ARE OMITTED
DATA RECORD IS MER-DATA.
01 MER-DATA.
02 CARD-CODE PICTURE X(3).
02 FILLER PICTURE X(3).
02 CAM-CODE PICTURE X.
02 FILLER PICTURE X(5).
02 DIV-CODE PICTURE XX.
02 FILLER PICTURE X(5).
02 AREA-CODE PICTURE X(4).
02 FILLER PICTURE X(5).
02 DISCRP PICTURE X(30).
02 FILLER PICTURE X(4).
02 AMOUNT PICTURE 9(8)V99.
02 FILLER PICTURE X(8).
FC TIH-TOTALS
RECORDING MODE IS F
RECORD CONTAINS 80 CHARACTERS
LABEL RECORDS ARE OMITTED
DATA RECORD IS TIH-DATA.
01 TIH-DATA.
02 CARD-CODE PICTURE XXX.
02 FILLER PICTURE XXX.
02 CAM-CODE PICTURE X.
02 FILLER PICTURE X(5).
02 DIV-CODE PICTURE XX.
02 FILLER PICTURE X(5).
02 AREA-CODE PICTURE X(4).
02 FILLER PICTURE X(5).
02 DISCRP-H PICTURE X(30).
02 FILLER PICTURE X(4).
02 AMT-HRS PICTURE 9(10).
02 FILLER PICTURE X(8).
FC PRGR-COST-FILE
RECORDING MODE IS F
RECORD CONTAINS 207 RECORDS
RECORD CONTAINS 17 CHARACTERS
LABEL RECORDS ARE STANDARD
DATA RECORD IS PRGR-COST-DATA.
01 PRGR-COST-DATA.

02 CR-CAM PICTURE X.
02 CR-DIV PICTURE XX.
02 CR-AREA PICTURE X(4).
02 CR-AMT PICTURE 9(8)V99.
FC PRGR-HR-FILE
RECORDING MODE IS F
RECORD CONTAINS 26 RECORDS
RECORD CONTAINS 135 CHARACTERS
LABEL RECORDS ARE STANDARD
DATA RECORD IS PRGR-HR-DATA.
01 PRGR-HR-DATA.
02 IDENT-DATA.
04 HR-CAM PICTURE X.
04 HR-AREA.
06 HR-DIV PICTURE XX.
06 HR-PROGR PICTURE XX.
02 HR-DATA.
04 HR-DA-HRS PICTURE 9(10).
04 HR-DV-HRS PICTURE 9(10).
04 HR-EA-HRS PICTURE 9(10).
04 HR-EV-HRS PICTURE 9(10).
04 HR-DA-HASF PICTURE 9(10).
04 HR-DV-HASF PICTURE 9(10).
04 HR-EA-HASF PICTURE 9(10).
04 HR-EV-HASF PICTURE 9(10).
04 HR-PROGR-TIH PICTURE 9(10).
04 HR-PROGR-HSF PICTURE 9(10).
04 HR-PE-TIH PICTURE 9(10).
04 HR-V-TIH PICTURE 9(10).
04 HR-E-TIH PICTURE 9(10).
FC PRGR-MERGE-FILE
RECORDING MODE IS F
RECORD CONTAINS 23 RECORDS
RECORD CONTAINS 147 CHARACTERS
LABEL RECORDS ARE STANDARD
DATA RECORD IS MERGE-DISK.
01 MERGE-DISK.
02 COST-RECORD.
04 C-CAM PICTURE X.
04 C-DIV PICTURE XX.
04 C-AREA PICTURE X(4).
02 C-AMT PICTURE 9(8)V99.
02 HR-RECORD.
04 H-DA-HRS PICTURE 9(10).
04 H-DV-HRS PICTURE 9(10).
04 H-EA-HRS PICTURE 9(10).
04 H-EV-HRS PICTURE 9(10).
04 H-DA-HASF PICTURE 9(10).
04 H-DV-HASF PICTURE 9(10).
04 H-EA-HASF PICTURE 9(10).
04 H-EV-HASF PICTURE 9(10).
04 H-PROGR-TIH PICTURE 9(10).
04 H-PROGR-HSF PICTURE 9(10).
04 H-PE-TIH PICTURE 9(10).
04 H-V-TIH PICTURE 9(10).
04 H-E-TIH PICTURE 9(10).
FC PRINTER
RECORDING MODE IS F
RECORD CONTAINS 133 CHARACTERS
LABEL RECORDS ARE OMITTED
DATA RECORD IS PRNT-LINE.
01 PRNT-LINE.
02 DATA PICTURE X(133).

WORKING-STORAGE SECTION.

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77 LAS3--X PICTURE X(25) VALUE 'WORKING-STORAGE SETION.'.
77 DISTR-ADM-TL PICTURE 9(8)V99 VALUE ZERC.
77 DIV120GH PICTURE 9(8)V99 VALUE ZERC.
77 DIV121GH PICTURE 9(8)V99 VALUE ZERC.
77 DIV122GH PICTURE 9(8)V99 VALUE ZERC.
77 DIV123GH PICTURE 9(8)V99 VALUE ZERC.
77 DIV124GH PICTURE 9(8)V99 VALUE ZERC.
77 DIV125GH PICTURE 9(8)V99 VALUE ZERC.
77 DIV126GH PICTURE 9(8)V99 VALUE ZERC.
77 DIV127GH PICTURE 9(8)V99 VALUE ZERC.
77 DIV128GH PICTURE 9(8)V99 VALUE ZERC.
77 DIV129GH PICTURE 9(8)V99 VALUE ZERC.
77 DIV220GH PICTURE 9(8)V99 VALUE ZERC.
77 DIV221GH PICTURE 9(8)V99 VALUE ZERC.
77 DIV222GH PICTURE 9(8)V99 VALUE ZERC.
77 DIV223GH PICTURE 9(8)V99 VALUE ZERC.
77 DIV224GH PICTURE 9(8)V99 VALUE ZERC.
77 DIV225GH PICTURE 9(8)V99 VALUE ZERC.
77 DIV226GH PICTURE 9(8)V99 VALUE ZERC.
77 DIV227GH PICTURE 9(8)V99 VALUE ZERC.
77 DIV228GH PICTURE 9(8)V99 VALUE ZERC.
77 DIV229GH PICTURE 9(8)V99 VALUE ZERC.
77 CAM1-ADM PICTURE 9(8)V99 VALUE ZERC.
77 CAM2-ADM PICTURE 9(8)V99 VALUE ZERC.
77 CAM1-FIELD PICTURE 9(8)V99 VALUE ZERC.
77 CAM2-FIELD PICTURE 9(8)V99 VALUE ZERC.
77 CAM1-POOL PICTURE 9(8)V99 VALUE ZERC.
77 CAM2-POOL PICTURE 9(8)V99 VALUE ZERC.
77 DIST-VGC-TL PICTURE 9(8)V99 VALUE ZERC.
77 CAM1-MAINT PICTURE 9(8)V99 VALUE ZERC.
77 CAM2-MAINT PICTURE 9(8)V99 VALUE ZERC.
77 CAM1-EVESAL PICTURE 9(8)V99 VALUE ZERC.
77 CAM2-EVESAL PICTURE 9(8)V99 VALUE ZERC.
77 DIST-TIH PICTURE 9(10) VALUE ZERC.
77 DIST-VHRS PICTURE 9(10) VALUE ZERC.
77 PE1-HRS PICTURE 9(10) VALUE ZERC.
77 PE2-HRS PICTURE 9(10) VALUE ZERC.
77 CAM1-HRS PICTURE 9(10) VALUE ZERC.
77 CAM2-HRS PICTURE 9(10) VALUE ZERC.
77 CAM1-EVE PICTURE 9(10) VALUE ZERC.
77 CAM2-EVE PICTURE 9(10) VALUE ZERC.
77 CAM1-HASF PICTURE 9(10) VALUE ZERC.
77 CAM2-HASF PICTURE 9(10) VALUE ZERC.
77 DIV120HRS PICTURE 9(10) VALUE ZERC.
77 DIV121HRS PICTURE 9(10) VALUE ZERC.
77 DIV122HRS PICTURE 9(10) VALUE ZERC.
77 DIV123HRS PICTURE 9(10) VALUE ZERC.
77 DIV124HRS PICTURE 9(10) VALUE ZERC.
77 DIV125HRS PICTURE 9(10) VALUE ZERC.
77 DIV126HRS PICTURE 9(10) VALUE ZERC.
77 DIV127HRS PICTURE 9(10) VALUE ZERC.
77 DIV128HRS PICTURE 9(10) VALUE ZERC.
77 DIV129HRS PICTURE 9(10) VALUE ZERC.
77 DIV220HRS PICTURE 9(10) VALUE ZERC.
77 DIV221HRS PICTURE 9(10) VALUE ZERC.
77 DIV222HRS PICTURE 9(10) VALUE ZERC.
77 DIV223HRS PICTURE 9(10) VALUE ZERC.
77 DIV224HRS PICTURE 9(10) VALUE ZERC.
77 DIV225HRS PICTURE 9(10) VALUE ZERC.
77 DIV226HRS PICTURE 9(10) VALUE ZERC.
77 DIV227HRS PICTURE 9(10) VALUE ZERC.
77 DIV228HRS PICTURE 9(10) VALUE ZERC.
77 DIV229HRS PICTURE 9(10) VALUE ZERC.
77 VOC4-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 ADM4-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 ADM1-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 ADM2-FACTOR PICTURE 9(8)V99 VALUE ZERC.

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77 FLD1-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 FLD2-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 ASFMAINT1-FACTOR PICTURE 9(5)V9(5) VALUE ZERC.
77 ASFMAINT2-FACTOR PICTURE 9(5)V9(5) VALUE ZERC.
77 EVESAL1-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 EVESAL2-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 ZERC-CK PICTURE 9(8)V99 VALUE ZERC.
77 120-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 121-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 122-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 123-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 124-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 125-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 126-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 127-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 128-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 220-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 129-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 221-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 222-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 223-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 224-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 225-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 226-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 227-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 228-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 229-FACTOR PICTURE 9(8)V99 VALUE ZERC.
77 C-AMT-HLO PICTURE 9(8)V99 VALUE ZERC.
77 H-CAM-HLO PICTURE X(10) VALUE SPACES.
77 H-DIV-HLO PICTURE XX(10) VALUE SPACES.
77 H-PROGR-TIH2 PICTURE 9(10) VALUE ZERC.
77 DIST-DAOM PICTURE 9(8)V99 VALUE ZERC.
77 DIST-VDC PICTURE 9(8)V99 VALUE ZERC.
77 DIST-CADM PICTURE 9(8)V99 VALUE ZERC.
77 DIST-MAINT PICTURE 9(8)V99 VALUE ZERC.
77 DIST-FLO PICTURE 9(8)V99 VALUE ZERC.
77 DIST-POOL PICTURE 9(8)V99 VALUE ZERC.
77 DIST-TL PICTURE 9(8)V99 VALUE ZERC.
77 DIST-OH PICTURE 9(8)V99 VALUE ZERC.
77 DIST-DIH PICTURE 9(8)V99 VALUE ZERC.
77 DIST-CPHR PICTURE 9(8)V99 VALUE ZERC.
77 DIST-OH-TL PICTURE 9(8)V99 VALUE ZERC.
77 DIST-EVESAL PICTURE 9(8)V99 VALUE ZERC.
77 C-AMT-HLO2 PICTURE 9(8)V99 VALUE ZERC.
77 STOP-SWTCB PICTURE X(10) VALUE SPACE.
77 STOP-SWTCB PICTURE X(10) VALUE SPACE.
77 02 PICTURE X(20) VALUE 'LIBRARY TECH PROGRAM'.
77 01 PICTURE X(19) VALUE 'BIOLOGICAL SCIENCES'.
77 02 PICTURE X(22) VALUE 'BUSINESS AND DATA PROC'.
77 03 PICTURE X(11) VALUE 'ENGINEERING'.
77 04 PICTURE X(19) VALUE 'FINE ARTS'.
77 05 PICTURE X(13) VALUE 'LANGUAGE ARTS'.
77 06 PICTURE X(14) VALUE 'ETHNIC STUDIES'.
77 07 PICTURE X(18) VALUE 'PHYSICAL EDUCATION'.
77 08 PICTURE X(16) VALUE 'PHYSICAL SCIENCE'.
77 09 PICTURE X(14) VALUE 'SOCIAL SCIENCE'.
77 V12 PICTURE XXX(10) VALUE 'V12'.
77 V3 PICTURE XXX(10) VALUE 'V3'.
77 A5 PICTURE XXX(10) VALUE 'A5'.
77 E3 PICTURE XXX(10) VALUE 'E3'.
77 F3 PICTURE XXX(10) VALUE 'F3'.
77 Q1 PICTURE XXX(10) VALUE 'Q1'.
77 A3 PICTURE XXX(10) VALUE 'A3'.
77 VHR PICTURE XXX(10) VALUE 'VHR'.
77 OHR PICTURE XXX(10) VALUE 'OHR'.
77 27P PICTURE XXX(10) VALUE '27P'.
77 CHR PICTURE XXX(10) VALUE 'CHR'.
77 HSF PICTURE XXX(10) VALUE 'HSF'.
77 TOH PICTURE XXX(10) VALUE 'TOH'.

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01 HR-DATA-HLC.
02 IDENT-DATA1.
04 HR-CAM1 PICTURE X.
04 HR-AREAL.
06 HR-DIV1 PICTURE XX.
06 HR-PRCGRI PICTURE XX.
02 HR-DATA1.
04 M-OA-HRS1 PICTURE 9(10) VALUE ZERC.
04 M-OV-HRS1 PICTURE 9(10) VALUE ZERO.
04 M-EA-HRS1 PICTURE 9(10) VALUE ZERC.
04 M-EV-HRS1 PICTURE 9(10) VALUE ZERC.
04 M-OA-MASF1 PICTURE 9(10) VALUE ZERC.
04 M-CV-MASF1 PICTURE 9(10) VALUE ZERO.
04 M-EA-MASF1 PICTURE 9(10) VALUE ZERC.
04 M-EV-MASF1 PICTURE 9(10) VALUE ZERC.
04 M-PROGR-TIH1 PICTURE 9(10) VALUE ZERC.
04 M-PROGR-HSF1 PICTURE 9(10) VALUE ZERO.
04 M-PE-TIH1 PICTURE 9(10) VALUE ZERC.
04 M-V-TIH1 PICTURE 9(10) VALUE ZERO.
04 M-E-TIH1 PICTURE 9(10) VALUE ZERO.
01 LINE-A.
02 FILLER PICTURE X(44) VALUE SPACES.
02 FILLER PICTURE X(35) VALUE 'FOOTHILL COMMUNITY COLLEGE 0001
'DISTRICT'.
02 FILLER PICTURE X(54) VALUE SPACES. 0001
01 LINE-B.
02 FILLER PICTURE X(47) VALUE SPACES.
02 FILLER PICTURE X(19) VALUE 'TOTAL PROGRAM COSTS'.
02 FILLER PICTURE X(67) VALUE SPACES.
01 LINE-C.
02 FILLER PICTURE X(40) VALUE SPACES.
02 FILLER PICTURE X(24) VALUE 'DATA IS FOR FISCAL YEAR '.
02 AYEAR PICTURE X(5) VALUE SPACES.
02 FILLER PICTURE X(64) VALUE SPACES.
01 OIV-CH-LABEL.
02 FILLER PICTURE X(10) VALUE SPACES.
02 FILLER PICTURE X(18) VALUE 'DIVISION OVERHEAD*'.
02 FILLER PICTURE X(12) VALUE SPACES.
02 DIV-CH-LB PICTURE Z(8)9.99.
02 FILLER PICTURE X(81) VALUE SPACES.
01 CAM-ADM-CH-LABEL.
02 FILLER PICTURE X(10) VALUE SPACES.
02 FILLER PICTURE X(19) VALUE 'CAMPUS ADM OVERHEAD*'.
02 FILLER PICTURE X(11) VALUE SPACES.
02 CAM-ADM-LB PICTURE Z(8)9.99.
02 FILLER PICTURE X(81) VALUE SPACES.
01 DIST-CH-LABEL.
02 FILLER PICTURE X(10) VALUE SPACES.
02 FILLER PICTURE X(17) VALUE 'DISTRICT OVERHEAD*'.
02 FILLER PICTURE X(13) VALUE SPACES.
02 DIST-CH-LB PICTURE Z(8)9.99.
02 FILLER PICTURE X(81) VALUE SPACES.
01 EVE-SAL-LABEL.
02 FILLER PICTURE X(10) VALUE SPACES.
02 FILLER PICTURE X(16) VALUE 'EVENING SALARIES*'.
02 FILLER PICTURE X(24) VALUE SPACES.
02 EVE-SAL-LB PICTURE Z(8)9.99.
02 FILLER PICTURE X(71) VALUE SPACES.
01 FIELD-CH-LABEL.
02 FILLER PICTURE X(10) VALUE SPACES.
02 FILLER PICTURE X(17) VALUE 'FIELD MAINTENANCE*'.
02 FILLER PICTURE X(13) VALUE SPACES.
02 FIELD-CH-LB PICTURE Z(8)9.99.
02 FILLER PICTURE X(81) VALUE SPACES.

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01 PCOL-CH-LABEL.
02 FILLER PICTURE X(10) VALUE SPACES.
02 FILLER PICTURE X(16) VALUE 'PCOL MAINTENANCE*'.
02 FILLER PICTURE X(14) VALUE SPACES.
02 PCOL-CH-LB PICTURE Z(8)9.99.
02 FILLER PICTURE X(81) VALUE SPACES.
01 MAINT-CH-LABEL.
02 FILLER PICTURE X(10) VALUE SPACES.
02 FILLER PICTURE X(18) VALUE 'CAMPUS MAINTENANCE*'.
02 FILLER PICTURE X(12) VALUE SPACES.
02 MAINT-CH-LB PICTURE Z(8)9.99.
02 FILLER PICTURE X(81) VALUE SPACES.
01 PROGR-CIR-LABEL.
02 FILLER PICTURE X(10) VALUE SPACES.
02 FILLER PICTURE X(19) VALUE 'PROGRAM DIRECT COST*'.
02 FILLER PICTURE X(21) VALUE SPACES.
02 PROGR-OR-LB PICTURE Z(8)9.99.
02 FILLER PICTURE X(71) VALUE SPACES.
01 PROGR-INOIR-SBTL.
02 FILLER PICTURE X(15) VALUE SPACES.
02 FILLER PICTURE X(19) VALUE 'SUBTOTAL - INDIRECT*'.
02 FILLER PICTURE X(16) VALUE SPACES.
02 PROGR-IO-LB PICTURE Z(8)9.99.
02 FILLER PICTURE X(71) VALUE SPACES.
01 PROGR-TL-LABEL.
02 FILLER PICTURE X(10) VALUE SPACES.
02 FILLER PICTURE X(19) VALUE 'PROGRAM TOTAL COSTS*'.
02 FILLER PICTURE X(21) VALUE SPACES.
02 PROGR-TL-LB PICTURE Z(8)9.99.
02 FILLER PICTURE X(71) VALUE SPACES.
01 TIH-LABEL.
02 FILLER PICTURE X(10) VALUE SPACES.
02 FILLER PICTURE X(17) VALUE 'TOTAL INSTR HOURS*'.
02 FILLER PICTURE X(13) VALUE SPACES.
02 TIH-LB PICTURE Z(10)99.
02 FILLER PICTURE X(81) VALUE SPACES.
01 CCST-TIH-LABEL.
02 FILLER PICTURE X(15) VALUE SPACES.
02 FILLER PICTURE X(19) VALUE 'CCST PER INSTR HOUR*'.
02 FILLER PICTURE X(16) VALUE SPACES.
02 COST-TIH-LB PICTURE Z(8)9.99.
02 FILLER PICTURE X(71) VALUE SPACES.
01 DIVISION-NAME.
02 FILLER PICTURE X(5) VALUE SPACES.
02 DIV-NAME PICTURE X(30) VALUE SPACES.
02 FILLER PICTURE X(98) VALUE SPACES.
01 PROGR-CODE.
02 FILLER PICTURE X(7) VALUE SPACES.
02 FILLER PICTURE X(8) VALUE 'PROGRAM '.
02 P-AREA PICTURE X(4) VALUE SPACES.
02 FILLER PICTURE X(114) VALUE SPACES.
01 PRINT-TOTALS.
02 PROGR-DADM PICTURE 9(8)V99 VALUE ZERC.
02 PROGR-VCC-OH PICTURE 9(8)V99 VALUE ZERC.
02 PROGR-CADM PICTURE 9(8)V99 VALUE ZERC.
02 PROGR-MAINT PICTURE 9(8)V99 VALUE ZERC.
02 PROGR-EVESAL PICTURE 9(8)V99 VALUE ZERC.
02 PROGR-FLO PICTURE 9(8)V99 VALUE ZERC.

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02 PRGR-PCCL      PICTURE 9(8)V99 VALUE ZER0.
02 PRGR-CH        PICTURE 9(8)V99 VALUE ZER0.
02 PRGR-CH-TL     PICTURE 9(8)V99 VALUE ZER0.
02 PRGR-TL        PICTURE 9(8)V99 VALUE ZER0.
02 PRGR-CPHR      PICTURE 9(8)V99 VALUE ZER0.

01 DIVISION-LABEL2.
02 FILLER          PICTURE X(10) VALUE SPACES.
02 FILLER          PICTURE X(16) VALUE 'DIVISION SUMMARY'.
02 FILLER          PICTURE X(107) VALUE SPACES.

01 DIV-TOTALS1.
02 DIV-CADM        PICTURE 9(8)V99 VALUE ZER0.
02 DIV-VCC         PICTURE 9(8)V99 VALUE ZER0.
02 DIV-CADM        PICTURE 9(8)V99 VALUE ZER0.
02 DIV-MAINT       PICTURE 9(8)V99 VALUE ZER0.
02 DIV-EVESAL      PICTURE 9(8)V99 VALUE ZER0.
02 DIV-FLO         PICTURE 9(8)V99 VALUE ZER0.
02 DIV-POCL        PICTURE 9(8)V99 VALUE ZER0.
02 DIV-TL          PICTURE 9(8)V99 VALUE ZER0.
02 DIV-TIH         PICTURE 9(10) VALUE ZER0.
02 DIV-OH          PICTURE 9(8)V99 VALUE ZER0.
02 DIV-DIR         PICTURE 9(8)V99 VALUE ZER0.
02 DIV-CPHR        PICTURE 9(8)V99 VALUE ZER0.
02 DIV-OH-TL       PICTURE 9(8)V99 VALUE ZER0.

01 CAMPUS-TOTALS2.
02 CAMP-MAINT      PICTURE 9(8)V99 VALUE ZER0.
02 CAMP-EVESAL     PICTURE 9(8)V99 VALUE ZER0.
02 CAMP-FLO        PICTURE 9(8)V99 VALUE ZER0.
02 CAMP-POCL       PICTURE 9(8)V99 VALUE ZER0.
02 CAMP-TL         PICTURE 9(8)V99 VALUE ZER0.
02 CAMP-TIH        PICTURE 9(10) VALUE ZER0.
02 CAMP-CH         PICTURE 9(8)V99 VALUE ZER0.
02 CAMP-CADM       PICTURE 9(8)V99 VALUE ZER0.
02 CAMP-DIR        PICTURE 9(8)V99 VALUE ZER0.
02 CAMP-VCC        PICTURE 9(8)V99 VALUE ZER0.
02 CAMP-CADM       PICTURE 9(8)V99 VALUE ZER0.
02 CAMP-CPHR       PICTURE 9(8)V99 VALUE ZER0.
02 CAMP-CH-TL      PICTURE 9(8)V99 VALUE ZER0.

01 LABEL-NOTE.
02 FILLER          PICTURE X(5) VALUE SPACES.
02 FILLER          PICTURE X(44) VALUE '*SALARIES ARE INCLUDED I
*N DIVISION OVERHEAD.'.
02 FILLER          PICTURE X(84) VALUE SPACES.

01 HLD-CODES.
02 C-CAM-HLD       PICTURE X VALUE SPACES.
02 C-DIV-HLD       PICTURE XX VALUE SPACES.
02 C-AREA-HLD      PICTURE X(4) VALUE SPACES.

01 CAMPUS-LABEL.
02 FILLER          PICTURE X(5) VALUE SPACES.
02 FILLER          PICTURE X(7) VALUE 'CAMPUS-'.
02 C-NAME          PICTURE X VALUE SPACES.
02 FILLER          PICTURE X(120) VALUE SPACES.

01 DIST-VCC-LABEL.
02 FILLER          PICTURE X(10) VALUE SPACES.
02 FILLER          PICTURE X(21) VALUE 'VCC EDUC ADM OVERHEAD'.
02 FILLER          PICTURE X(9) VALUE SPACES.
02 DIST-VCC-LB     PICTURE Z(8)9.99.
02 FILLER          PICTURE X(81) VALUE SPACES.

01 CAM-LABEL2.
02 FILLER          PICTURE X(10) VALUE SPACES.
02 FILLER          PICTURE X(14) VALUE 'CAMPUS SUMMARY'.
02 FILLER          PICTURE X(109) VALUE SPACES.

01 DIST-LABEL.
02 FILLER          PICTURE X(10) VALUE SPACES.
02 FILLER          PICTURE X(16) VALUE 'DISTRICT SUMMARY'.

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02 FILLER          PICTURE X(107) VALUE SPACES.
01 DACM-FACTCR.
02 FILLER          PICTURE X(10) VALUE SPACES.
02 FILLER          PICTURE X(22) VALUE 'CIST-ADM CPHR'.
02 FILLER          PICTURE X(8) VALUE SPACES.
02 DCPHR          PICTURE Z(8)9.99.
02 FILLER          PICTURE X(81) VALUE SPACES.

01 DVCC-FACTCR.
02 FILLER          PICTURE X(10) VALUE SPACES.
02 FILLER          PICTURE X(22) VALUE 'VCC-ADM CPHR'.
02 FILLER          PICTURE X(8) VALUE SPACES.
02 VCPHR          PICTURE Z(8)9.99.
02 FILLER          PICTURE X(81) VALUE SPACES.

01 FH-ADM.
02 FILLER          PICTURE X(10) VALUE SPACES.
02 FILLER          PICTURE X(22) VALUE 'FH-ADM CPHR'.
02 FILLER          PICTURE X(8) VALUE SPACES.
02 FACPHR         PICTURE Z(8)9.99.
02 FILLER          PICTURE X(81) VALUE SPACES.

01 DA-ADM.
02 FILLER          PICTURE X(10) VALUE SPACES.
02 FILLER          PICTURE X(22) VALUE 'DA-ADM CPHR'.
02 FILLER          PICTURE X(8) VALUE SPACES.
02 DACPHR         PICTURE Z(8)9.99.
02 FILLER          PICTURE X(81) VALUE SPACES.

01 FH-MAINT.
02 FILLER          PICTURE X(10) VALUE SPACES.
02 FILLER          PICTURE X(22) VALUE 'FH MAINT FACTOR'.
02 FILLER          PICTURE X(8) VALUE SPACES.
02 FILLER          PICTURE X(5) VALUE SPACES.
02 FMCPHR         PICTURE Z9.9(5).
02 FILLER          PICTURE X(81) VALUE SPACES.

01 DA-MAINT.
02 FILLER          PICTURE X(10) VALUE SPACES.
02 FILLER          PICTURE X(22) VALUE 'DA MAINT FACTOR'.
02 FILLER          PICTURE X(8) VALUE SPACES.
02 FILLER          PICTURE X(5) VALUE SPACES.
02 DMCPHR         PICTURE Z9.9(5).
02 FILLER          PICTURE X(81) VALUE SPACES.

01 FH-EVE.
02 FILLER          PICTURE X(10) VALUE SPACES.
02 FILLER          PICTURE X(22) VALUE 'FH EVE-SAL CPHR'.
02 FILLER          PICTURE X(8) VALUE SPACES.
02 FECPHR         PICTURE Z(8)9.99.
02 FILLER          PICTURE X(81) VALUE SPACES.

01 DA-EVE.
02 FILLER          PICTURE X(10) VALUE SPACES.
02 FILLER          PICTURE X(22) VALUE 'DA EVE-SAL CPHR'.
02 FILLER          PICTURE X(8) VALUE SPACES.
02 DECPHR         PICTURE Z(8)9.99.
02 FILLER          PICTURE X(81) VALUE SPACES.

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PROCEDURE DIVISION.
START-PROCESSING.
OPEN INPUT MER-TOTALS, TIH-TOTALS,
PROGR-CCST-FILE, PRGR-HR-FILE,
OPEN OUTPUT PRINTER, PRGR-MERGE-FILE.
DISPLAY 'WRITE FISCAL YEAR IN FERMAT XX-XX' UPON CONSOLE.
ACCEPT AYEAR FROM CONSOLE.
WRITE PRNT-LINE FROM LINE-A AFTER ADVANCING 0 LINES.
WRITE PRNT-LINE FROM LINE-B AFTER ADVANCING 2 LINES.
WRITE PRNT-LINE FROM LINE-C AFTER ADVANCING 2 LINES.
DISPLAY 'LCAC MER DATA ONLY WITH END CARD' UPON CONSOLE.
MOVE 1 TO ZERO-CK.

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CARD-READ.
 READ MER-TOTALS, AT END GO TO END-CF-RUN1.
 TABLE-CK1.
 IF CAM-CCOE IS NOT EQUAL TO 4, GO TO TABLE-CK2.
 IF CARD-CODE IS EQUAL TO V12, MOVE AMOUNT TO CISTR-ADM-TL,
 GO TO CARD-READ.
 IF CARD-CODE IS EQUAL TO V3, MOVE AMOUNT TO CIST-VCC-TL,
 GO TO CARD-READ.
 TABLE-CK2.
 IF CAM-CODE IS EQUAL TO 1, GO TO CAMPUS1A-SCRT.
 IF CAM-CODE IS EQUAL TO 2, GO TO CAMPUS2A-SCRT.
 DISPLAY 'WRONG CAMPUS CODE' UPON CONSOLE, STOP RUN.
 CAMPUS1A-SCRT.
 IF DIV-CODE IS EQUAL TO SPACES, GO TO CAMPUS1B-SCRT, ELSE
 IF DIV-CODE IS EQUAL TO 20, MOVE AMOUNT TO DIV120CH, ELSE
 IF DIV-CODE IS EQUAL TO 21, MOVE AMOUNT TO DIV121CH, ELSE
 IF DIV-CODE IS EQUAL TO 22, MOVE AMOUNT TO DIV122CH, ELSE
 IF DIV-CODE IS EQUAL TO 23, MOVE AMOUNT TO DIV123CH, ELSE
 IF DIV-CODE IS EQUAL TO 24, MOVE AMOUNT TO DIV124CH, ELSE
 IF DIV-CODE IS EQUAL TO 25, MOVE AMOUNT TO DIV125CH, ELSE
 IF DIV-CODE IS EQUAL TO 26, MOVE AMOUNT TO DIV126CH, ELSE
 IF DIV-CODE IS EQUAL TO 27, MOVE AMOUNT TO DIV127CH, ELSE
 IF DIV-CODE IS EQUAL TO 28, MOVE AMOUNT TO DIV128CH, ELSE
 IF DIV-CODE IS EQUAL TO 29, MOVE AMOUNT TO DIV129CH, ELSE
 DISPLAY 'WRONG DIVISION CODE' UPON CONSOLE, STOP RUN.
 GO TO CARD-READ.
 CAMPUS1B-SCRT.
 IF CARD-CODE IS EQUAL TO A9, MOVE AMOUNT TO CAM1-ADM,
 GO TO CARD-READ.
 IF CARD-CODE IS EQUAL TO E3, MOVE AMOUNT TO CAM1-FIELD,
 GO TO CARD-READ.
 IF CARD-CODE IS EQUAL TO F3, MOVE AMOUNT TO CAM1-PCOL,
 GO TO CARD-READ.
 IF CARD-CODE IS EQUAL TO G1, MOVE AMOUNT TO CAM1-MAINT,
 GO TO CARD-READ.
 IF CARD-CODE IS EQUAL TO A3, MOVE AMOUNT TO CAM1-EVESAL,
 GO TO CARD-READ.
 DISPLAY 'WRONG CARD-CODE' UPON CONSOLE, STOP RUN.
 CAMPUS2A-SCRT.
 IF DIV-CODE IS EQUAL TO SPACES, GO TO CAMPUS2B-SCRT, ELSE
 IF DIV-CODE IS EQUAL TO 21, MOVE AMOUNT TO DIV221CH, ELSE
 IF DIV-CODE IS EQUAL TO 22, MOVE AMOUNT TO DIV222CH, ELSE
 IF DIV-CODE IS EQUAL TO 23, MOVE AMOUNT TO DIV223CH, ELSE
 IF DIV-CODE IS EQUAL TO 24, MOVE AMOUNT TO DIV224CH, ELSE
 IF DIV-CODE IS EQUAL TO 25, MOVE AMOUNT TO DIV225CH, ELSE
 IF DIV-CODE IS EQUAL TO 26, MOVE AMOUNT TO DIV226CH, ELSE
 IF DIV-CODE IS EQUAL TO 27, MOVE AMOUNT TO DIV227CH, ELSE
 IF DIV-CODE IS EQUAL TO 28, MOVE AMOUNT TO DIV228CH, ELSE
 IF DIV-CODE IS EQUAL TO 29, MOVE AMOUNT TO DIV229CH, ELSE
 DISPLAY 'WRONG DIVISION CODE' UPON CONSOLE, STOP RUN.
 GO TO CARD-READ.
 CAMPUS2B-SCRT.
 IF CARD-CODE IS EQUAL TO A9, MOVE AMOUNT TO CAM2-ADM,
 GO TO CARD-READ.
 IF CARD-CODE IS EQUAL TO E3, MOVE AMOUNT TO CAM2-FIELD,
 GO TO CARD-READ.
 IF CARD-CODE IS EQUAL TO F3, MOVE AMOUNT TO CAM2-PCOL,
 GO TO CARD-READ.
 IF CARD-CODE IS EQUAL TO G1, MOVE AMOUNT TO CAM2-MAINT,
 GO TO CARD-READ.
 IF CARD-CODE IS EQUAL TO A3, MOVE AMOUNT TO CAM2-EVESAL,
 GO TO CARD-READ.
 DISPLAY 'WRONG CARD CODE' UPON CONSOLE, STOP RUN.
 END-CF-RUN1.
 DISPLAY 'LOAD TIM DECK WITH END CARD' UPON CONSOLE.
 GO TO READ-TIH.

READ-TIH.
 READ TIH-TOTALS, AT END GO TO END-CF-RUN2.
 IF AMT-HRS IS EQUAL TO ZERO, ADD ZERO-CK TO AMT-HRS.
 TABLE-CK3.
 IF CAM-CODEH IS NOT EQUAL TO 4, GO TO CAMPUS-CK.
 IF CARD-CODEH IS EQUAL TO OHR, MOVE AMT-HRS TO CIST-TIH,
 GO TO READ-TIH.
 IF CARD-CODEH IS EQUAL TO VHR, MOVE AMT-HRS TO CIST-VHRS,
 GO TO READ-TIH.
 DISPLAY 'WRONG CAMPUS CODE OR CARD CODE' UPON CONSOLE.
 CAMPUS-CK.
 IF CAM-CODEH IS EQUAL TO 1, GO TO CAM1AH-SCRT.
 IF CAM-CODEH IS EQUAL TO 2, GO TO CAM2AH-SCRT.
 DISPLAY 'WRONG CAMPUS CODE' UPON CONSOLE, STOP RUN.
 CAM1AH-SCRT.
 IF CARD-CODEH IS EQUAL TO 27P, MOVE AMT-HRS TO PE1-HRS,
 GO TO READ-TIH.
 IF CARD-CODEH IS EQUAL TO CHR, MOVE AMT-HRS TO CAM1-HRS,
 GO TO READ-TIH.
 IF CARD-CODEH IS EQUAL TO VHR, MOVE AMT-HRS TO CAM1-EVE,
 GO TO READ-TIH.
 IF CARD-CODEH IS EQUAL TO HSF, MOVE AMT-HRS TO CAM1-HASF,
 GO TO READ-TIH.
 IF CARD-CODEH IS NOT EQUAL TO TOH, DISPLAY 'BAD CARD CODE'
 UPON CONSOLE, STOP RUN.
 IF DIV-CODEH IS EQUAL TO 20, MOVE AMT-HRS TO DIV120HRS, ELSE
 IF DIV-CODEH IS EQUAL TO 21, MOVE AMT-HRS TO DIV121HRS, ELSE
 IF DIV-CODEH IS EQUAL TO 22, MOVE AMT-HRS TO DIV122HRS, ELSE
 IF DIV-CODEH IS EQUAL TO 23, MOVE AMT-HRS TO DIV123HRS, ELSE
 IF DIV-CODEH IS EQUAL TO 24, MOVE AMT-HRS TO DIV124HRS, ELSE
 IF DIV-CODEH IS EQUAL TO 25, MOVE AMT-HRS TO DIV125HRS, ELSE
 IF DIV-CODEH IS EQUAL TO 26, MOVE AMT-HRS TO DIV126HRS, ELSE
 IF DIV-CODEH IS EQUAL TO 27, MOVE AMT-HRS TO DIV127HRS, ELSE
 IF DIV-CODEH IS EQUAL TO 28, MOVE AMT-HRS TO DIV128HRS, ELSE
 IF DIV-CODEH IS EQUAL TO 29, MOVE AMT-HRS TO DIV129HRS, ELSE
 DISPLAY 'WRONG DIVISION CODE' UPON CONSOLE, STOP RUN.
 GO TO READ-TIH.
 CAM2AH-SCRT.
 IF CARD-CODEH IS EQUAL TO 27P, MOVE AMT-HRS TO PE2-HRS,
 GO TO READ-TIH.
 IF CARD-CODEH IS EQUAL TO CHR, MOVE AMT-HRS TO CAM2-HRS,
 GO TO READ-TIH.
 IF CARD-CODEH IS EQUAL TO VHR, MOVE AMT-HRS TO CAM2-EVE,
 GO TO READ-TIH.
 IF CARD-CODEH IS EQUAL TO HSF, MOVE AMT-HRS TO CAM2-HASF,
 GO TO READ-TIH.
 IF CARD-CODEH IS NOT EQUAL TO TOH, DISPLAY 'BAD CARD CODE'
 UPON CONSOLE, STOP RUN.
 IF DIV-CODEH IS EQUAL TO 20, MOVE AMT-HRS TO DIV220HRS, ELSE
 IF DIV-CODEH IS EQUAL TO 21, MOVE AMT-HRS TO DIV221HRS, ELSE
 IF DIV-CODEH IS EQUAL TO 22, MOVE AMT-HRS TO DIV222HRS, ELSE
 IF DIV-CODEH IS EQUAL TO 23, MOVE AMT-HRS TO DIV223HRS, ELSE
 IF DIV-CODEH IS EQUAL TO 24, MOVE AMT-HRS TO DIV224HRS, ELSE
 IF DIV-CODEH IS EQUAL TO 25, MOVE AMT-HRS TO DIV225HRS, ELSE
 IF DIV-CODEH IS EQUAL TO 26, MOVE AMT-HRS TO DIV226HRS, ELSE
 IF DIV-CODEH IS EQUAL TO 27, MOVE AMT-HRS TO DIV227HRS, ELSE
 IF DIV-CODEH IS EQUAL TO 28, MOVE AMT-HRS TO DIV228HRS, ELSE
 IF DIV-CODEH IS EQUAL TO 29, MOVE AMT-HRS TO DIV229HRS, ELSE
 DISPLAY 'WRONG DIVISION CODE' UPON CONSOLE, STOP RUN.
 GO TO READ-TIH.
 END-CF-RUN2.
 DIVIDE CIST-VHRS INTO CIST-VCC-TL GIVING VCC4-FACTOR.
 DIVIDE CIST-TIH INTO CISTR-ADM-TL GIVING ADM4-FACTOR.
 DIVIDE CAM1-HRS INTO CAM1-ADM GIVING ADM1-FACTOR.
 DIVIDE CAM2-HRS INTO CAM2-ADM GIVING ADM2-FACTOR.
 DIVIDE PE1-HRS INTO CAM1-FIELD GIVING FLD1-FACTOR.
 DIVIDE PE2-HRS INTO CAM2-FIELD GIVING FLD2-FACTOR.
 DIVIDE CAM1-HASF INTO CAM1-MAINT GIVING ASFPMAINT1-FACTOR.
 DIVIDE CAM2-HASF INTO CAM2-MAINT GIVING ASFPMAINT2-FACTOR.
 DIVIDE CAM1-EVE INTO CAM1-EVESAL GIVING EVESAL1-FACTOR.
 DIVIDE CAM2-EVE INTO CAM2-EVESAL GIVING EVESAL2-FACTOR.
 DIVIDE DIV120HRS INTO DIV120CH GIVING 120-FACTOR.

DIVIDE DIV121HRS INTO DIV121CH GIVING 121-FACTOR.
 DIVIDE DIV122HRS INTO DIV122CH GIVING 122-FACTOR.
 DIVIDE DIV123HRS INTO DIV123CH GIVING 123-FACTOR.
 DIVIDE DIV124HRS INTO DIV124CH GIVING 124-FACTOR.
 DIVIDE DIV125HRS INTO DIV125CH GIVING 125-FACTOR.
 DIVIDE DIV126HRS INTO DIV126CH GIVING 126-FACTOR.
 DIVIDE DIV127HRS INTO DIV127CH GIVING 127-FACTOR.
 DIVIDE DIV128HRS INTO DIV128CH GIVING 128-FACTOR.
 DIVIDE DIV129HRS INTO DIV129CH GIVING 129-FACTOR.
 DIVIDE DIV221HRS INTO DIV221CH GIVING 221-FACTOR.
 DIVIDE DIV222HRS INTO DIV222CH GIVING 222-FACTOR.
 DIVIDE DIV223HRS INTO DIV223CH GIVING 223-FACTOR.
 DIVIDE DIV224HRS INTO DIV224CH GIVING 224-FACTOR.
 DIVIDE DIV225HRS INTO DIV225CH GIVING 225-FACTOR.
 DIVIDE DIV226HRS INTO DIV226CH GIVING 226-FACTOR.
 DIVIDE DIV227HRS INTO DIV227CH GIVING 227-FACTOR.
 DIVIDE DIV228HRS INTO DIV228CH GIVING 228-FACTOR.
 DIVIDE DIV229HRS INTO DIV229CH GIVING 229-FACTOR.
 FILE-MERGE-1.
 READ PRGR-CCST-FILE, AT END,
 MOVE '1' TO STOP-SWITCHA, GO TO END-CF-RUN3.
 MOVE CR-CAM TO C-CAM-HLD.
 MOVE CR-DIV TO C-DIV-HLD.
 MOVE CR-AREA TO C-AREA-HLD.
 MOVE CR-AMT TO C-AMT-HLD.

 FILE-MERGE-2.
 READ PRGR-HR-FILE, AT END,
 MOVE '1' TO STOP-SWITCHB, GO TO END-CF-RUN4.

 CK-CAM.
 IF C-CAM-HLD IS NOT EQUAL TO HR-CAM, GO TO CHECK2.

 CK-AREA.
 IF C-AREA-HLD IS NOT EQUAL TO HR-AREA, GO TO CHECK4.

 CK-EQUAL.
 MOVE HLD-CCDES TO CCST-RECORD.
 MOVE C-AMT-HLD TO C-AMT.
 MOVE HR-DATA TO HR-RECORD.

 WRITE MERGE-DISK.
 MOVE ZEROS TO HR-RECORD, C-AMT, C-AMT-HLD.
 MOVE SPACES TO C-CAM, C-DIV, C-AREA, HLD-CCDES.
 GO TO FILE-MERGE-1.

 CHECK2.
 IF C-CAM-HLD IS LESS THAN HR-CAM, GO TO CHECK3.

 HR-LESS-COST1.
 MOVE HR-CAM TO C-CAM.
 MOVE HR-DIV TO C-DIV.
 MOVE HR-AREA TO C-AREA.
 MOVE ZEROS TO C-AMT.
 MOVE HR-DATA TO HR-RECORD.
 WRITE MERGE-DISK.
 MOVE ZEROS TO HR-RECORD, C-AMT.
 MOVE SPACES TO C-CAM, C-DIV, C-AREA.

 HR-LESS-COST2.
 GO TO FILE-MERGE-2.

 CHECK3.
 MOVE HLD-CCDES TO CCST-RECORD.
 MOVE PRGR-HR-DATA TO HR-DATA-HLD.
 MOVE C-AMT-HLD TO C-AMT.
 MOVE ZEROS TO HR-RECORD.
 WRITE MERGE-DISK.
 MOVE SPACES TO CCST-RECORD, HLD-CCDES.
 MOVE ZEROS TO C-AMT, C-AMT-HLD.

CCST-LESS-HRS.
 PERFORM FILE-MERGE-1.
 MOVE HR-DATA-HLD TO PRGR-HR-DATA.
 GO TO CK-CAM.

 CHECK4.
 IF C-AREA-HLD IS LESS THAN HR-AREA, GO TO CHECK3.
 GO TO HR-LESS-COST1.

 END-CF-RLN3.
 IF STOP-SWITCHB IS EQUAL TO 1, GO TO CHECK5.
 PERFORM FILE-MERGE-2.
 PERFORM HR-LESS-COST1.
 GO TO END-CF-RLN3.

 END-CF-RLN4.
 IF STOP-SWITCHA IS EQUAL TO 1, GO TO CHECK5.
 PERFORM FILE-MERGE-1.
 PERFORM CHECK3.
 GO TO END-CF-RLN4.

 CHECK5.
 CLOSE PRGR-MERGE-FILE.
 OPEN INPUT PRGR-MERGE-FILE.
 GO TO READ-DISK1.

 READ-DISK1.
 READ PRGR-MERGE-FILE, AT END, GO TO END-CF-RUN8.
 MOVE C-AREA TO C-AREA-HLD.
 MOVE C-AMT TO C-AMT-HLD.

 DISK-CK.
 IF C-CAM-HLD IS EQUAL TO SPACES,
 MOVE C-CAM TO C-CAM-HLD.
 IF C-DIV-HLD IS EQUAL TO SPACES,
 MOVE C-DIV TO C-DIV-HLD.

 DISK-CK2.
 IF C-CAM IS NOT EQUAL TO C-CAM-HLD,
 PERFORM DIVISION-SUM,
 PERFORM CAMPLS-SUM,
 MOVE C-CAM TO C-CAM-HLD,
 MOVE C-DIV TO C-DIV-HLD.
 IF C-DIV IS NOT EQUAL TO C-DIV-HLD,
 PERFORM DIVISION-SUM,
 MOVE C-DIV TO C-DIV-HLD.
 GO TO COMPUTATION-1.

 COMPUTATION-1.
 MULTIPLY H-PRGR-TIH BY ACM4-FACTOR GIVING PRGR-CADM,
 ADD PRGR-CADM TO PRGR-CH-TL.
 MULTIPLY H-V-TIH BY VCC4-FACTOR GIVING PRGR-VCC-CH,
 ADD PRGR-VCC-CH TO PRGR-CH-TL.
 IF C-CAM-HLD IS EQUAL TO 1, GO TO CAMPUS1-COMPUTATION, ELSE
 IF C-CAM-HLD IS EQUAL TO 2, GO TO CAMPUS2-COMPUTATION.

 CAMPUS1-COMPUTATION.
 MULTIPLY H-PRGR-TIH BY ACM1-FACTOR GIVING PRGR-CADM,
 ADD PRGR-CADM TO PRGR-CH-TL.
 MULTIPLY H-PRGR-MSF BY ASFMAINT1-FACTOR GIVING PRGR-MAINT,
 ADD PRGR-MAINT TO PRGR-CH-TL.
 MULTIPLY H-E-TIH BY EVESAL1-FACTOR GIVING PRGR-EVESAL.
 IF C-DIV-HLD IS EQUAL TO 27, GO TO PE-FIELD-PCCL, ELSE
 MOVE ZEROS TO PRGR-FLD,
 MOVE ZEROS TO PRGR-FCCL.
 GO TO DIV-CH-COMPUTATION1.

 CAMPUS2-SEPARATOR.
 IF C-CAM-HLD IS EQUAL TO 1, GO TO DIV-CH-COMPUTATION1, ELSE
 IF C-CAM-HLD IS EQUAL TO 2, GO TO DIV-CH-COMPUTATION2.
 PE-FIELD-PCCL.
 IF C-AREA-HLD IS EQUAL TO 2711, MULTIPLY H-PRGR-TIH BY

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      FLD1-FACTOR GIVING PRGGR-FLC, ELSE
IF C-AREA-HLD IS EQUAL TO 2721, MULTIPLY H-PRGGR-TIH BY
      FLD1-FACTOR GIVING PRGGR-FLC, ELSE
IF C-AREA-HLD IS EQUAL TO 2722, MULTIPLY H-PRGGR-TIH BY
      FLD1-FACTOR GIVING PRGGR-FLC, ELSE
IF C-AREA-HLD IS EQUAL TO 2723, MULTIPLY H-PRGGR-TIH BY
      FLD1-FACTOR GIVING PRGGR-FLC, ELSE
IF C-AREA-HLD IS EQUAL TO 2724, MULTIPLY H-PRGGR-TIH BY
      FLD1-FACTOR GIVING PRGGR-FLC, ELSE
IF C-AREA-HLD IS EQUAL TO 2725, MULTIPLY H-PRGGR-TIH BY
      FLD1-FACTOR GIVING PRGGR-FLC, ELSE
IF C-AREA-HLD IS EQUAL TO 2725, GO TO CAM-PCCL, ELSE
      MOVE ZERGS TO PRGGR-FLD, MOVE ZERGS TO PRGGR-PUCL.
      ADD PRGGR-FLC TO PRGGR-CH-TL, GO TO CAMPUS-SEPARATION.
CAM-PCCL.
IF C-CAM-HLD IS EQUAL TO 1, MOVE CAM1-PCCL TO PRGGR-PCCL,
      ADD PRGGR-PCCL TO PRGGR-CH-TL, ELSE
IF C-CAM-HLD IS EQUAL TO 2, MOVE CAM2-PCCL TO PRGGR-PUCL,
      ADD PRGGR-PCCL TO PRGGR-CH-TL.
      GO TO CAMPUS-SEPARATION.
DIV-OH-COMPUTATION1.
IF C-DIV-HLD IS EQUAL TO 20 MULTIPLY H-PRGGR-TIH BY
      120-FACTOR GIVING PRGGR-CH, ELSE
IF C-DIV-HLD IS EQUAL TO 21 MULTIPLY H-PRGGR-TIH BY
      121-FACTOR GIVING PRGGR-CH, ELSE
IF C-DIV-HLD IS EQUAL TO 22 MULTIPLY H-PRGGR-TIH BY
      122-FACTOR GIVING PRGGR-CH, ELSE
IF C-DIV-HLD IS EQUAL TO 23 MULTIPLY H-PRGGR-TIH BY
      123-FACTOR GIVING PRGGR-CH, ELSE
IF C-DIV-HLD IS EQUAL TO 24 MULTIPLY H-PRGGR-TIH BY
      124-FACTOR GIVING PRGGR-CH, ELSE
IF C-DIV-HLD IS EQUAL TO 25 MULTIPLY H-PRGGR-TIH BY
      125-FACTOR GIVING PRGGR-CH, ELSE
IF C-DIV-HLD IS EQUAL TO 26 MULTIPLY H-PRGGR-TIH BY
      126-FACTOR GIVING PRGGR-CH, ELSE
IF C-DIV-HLD IS EQUAL TO 27 MULTIPLY H-PRGGR-TIH BY
      127-FACTOR GIVING PRGGR-CH, ELSE
IF C-DIV-HLD IS EQUAL TO 28 MULTIPLY H-PRGGR-TIH BY
      128-FACTOR GIVING PRGGR-CH, ELSE
IF C-DIV-HLD IS EQUAL TO 29 MULTIPLY H-PRGGR-TIH BY
      125-FACTOR GIVING PRGGR-CH.
      ADD PRGGR-CH TO PRGGR-CH-TL.
      GO TO CCST-PER-HR.
CAMPUS2-COMPUTATION.
      MULTIPLY H-PRGGR-TIH BY ACM2-FACTOR GIVING PRGGR-CADM,
      ADD PRGGR-CADM TO PRGGR-CH-TL.
      MULTIPLY H-PRGGR-HSF BY ASFMINT2-FACTOR GIVING PRGGR-MAINT,
      ADD PRGGR-MAINT TO PRGGR-CH-TL.
      MULTIPLY H-E-TIH BY EVESAL2-FACTOR GIVING PRGGR-EVESAL.
      IF C-DIV-HLD IS EQUAL TO 27, GO TO PL-FIELD-PCCL, ELSE
      MOVE ZERGS TO PRGGR-FLD,
      MOVE ZERGS TO PRGGR-PCCL.
      GO TO DIV-OH-COMPUTATION2.
DIV-CH-COMPUTATION2.
IF C-DIV-HLD IS EQUAL TO 20 MULTIPLY H-PRGGR-TIH BY
      220-FACTOR GIVING PRGGR-CH, ELSE
IF C-DIV-HLD IS EQUAL TO 21 MULTIPLY H-PRGGR-TIH BY
      221-FACTOR GIVING PRGGR-CH, ELSE
IF C-DIV-HLD IS EQUAL TO 22 MULTIPLY H-PRGGR-TIH BY
      222-FACTOR GIVING PRGGR-CH, ELSE
IF C-DIV-HLD IS EQUAL TO 23 MULTIPLY H-PRGGR-TIH BY
      223-FACTOR GIVING PRGGR-CH, ELSE
IF C-DIV-HLD IS EQUAL TO 24 MULTIPLY H-PRGGR-TIH BY
      224-FACTOR GIVING PRGGR-CH, ELSE
IF C-DIV-HLD IS EQUAL TO 25 MULTIPLY H-PRGGR-TIH BY
      225-FACTOR GIVING PRGGR-CH, ELSE
IF C-DIV-HLD IS EQUAL TO 26 MULTIPLY H-PRGGR-TIH BY
      226-FACTOR GIVING PRGGR-CH, ELSE
IF C-DIV-HLD IS EQUAL TO 27 MULTIPLY H-PRGGR-TIH BY
      227-FACTOR GIVING PRGGR-CH, ELSE
IF C-DIV-HLD IS EQUAL TO 28 MULTIPLY H-PRGGR-TIH BY
      228-FACTOR GIVING PRGGR-CH, ELSE

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      IF C-DIV-HLD IS EQUAL TO 29 MULTIPLY H-PRGGR-TIH BY
      229-FACTOR GIVING PRGGR-CH.
      ADD PRGGR-CH TO PRGGR-CH-TL.
      GO TO CCST-PER-HR.
CCST-PER-HR.
      ADD PRGGR-EVESAL, PRGGR-CH-TL, C-AMT-HLD GIVING PRGGR-TL.
      PERFORM DIVISION-SUMMARIES.
      DEVICE H-PRGGR-TIH INTO PRGGR-TL GIVING PRGGR-CPTR.
SUMMARY-TOTALS.
      ADD PRGGR-CH-TL TO CAMP-CH-TL.
      ADD PRGGR-CH TO CAMP-CH.
      ADD PRGGR-DAUM TO CAMP-DAUM.
      ADD PRGGR-VCC-CH TO CAMP-VCC.
      ADD PRGGR-CADM TO CAMP-CADM.
      ADD PRGGR-MAINT TO CAMP-MAINT.
      ADD PRGGR-EVESAL TO CAMP-EVESAL.
      ADD PRGGR-FLD TO CAMP-FLD.
      ADD PRGGR-PCCL TO CAMP-PCCL.
      ADD PRGGR-TL TO CAMP-TL.
      ADD H-PRGGR-TIH TO CAMP-TIH.
      ADD C-AMT-HLD TO CAMP-CIR.
      ADD PRGGR-DAUM TO DIST-DAUM.
      ADD PRGGR-VCC-CH TO DIST-VCC.
      ADD PRGGR-CADM TO DIST-CADM.
      ADD PRGGR-MAINT TO DIST-MAINT.
      ADD PRGGR-EVESAL TO DIST-EVESAL.
      ADD PRGGR-FLD TO DIST-FLD.
      ADD PRGGR-PCCL TO DIST-PCCL.
      ADD PRGGR-TL TO DIST-TL.
      ADD PRGGR-CH TO DIST-CH.
      ADD C-AMT-HLD TO DIST-CIR.
      ADD PRGGR-CH-TL TO DIST-CH-TL.
PRINT-DATA.
      MOVE C-CAM-HLD TO C-NAME.
      MOVE SPACES TO PRNT-LINE.
      WRITE PRNT-LINE FROM CAMPUS-LABEL AFTER ADVANCING 0 LINES.
      MOVE SPACES TO C-NAME, DATA.
      MOVE C-AREA-HLD TO P-AREA.
      WRITE PRNT-LINE FROM PRGGR-CCDE AFTER ADVANCING 2 LINES.
      MOVE SPACES TO P-AREA, DATA.
PRINT-DATA1.
      MOVE PRGGR-CH TO DIV-CH-LB.
      WRITE PRNT-LINE FROM DIV-CH-LABEL AFTER ADVANCING 2 LINES.
      MOVE SPACES TO DATA. MOVE ZERGS TO DIV-CH-LB.
      MOVE PRGGR-CADM TO CAM-ACM-LB.
      WRITE PRNT-LINE FROM CAM-ADM-CH-LABEL AFTER
      ADVANCING 1 LINES.
      MOVE SPACES TO DATA. MOVE ZERGS TO CAM-ACM-LB.
      MOVE PRGGR-DAUM TO DIST-CH-LB.
      WRITE PRNT-LINE FROM DIST-CH-LABEL AFTER ADVANCING 1 LINES.
      MOVE SPACES TO DATA. MOVE ZERGS TO DIST-CH-LB.
      MOVE PRGGR-VCC-CH TO DIST-VCC-LB.
      WRITE PRNT-LINE FROM DIST-VCC-LABEL AFTER ADVANCING 1 LINES.
      MOVE SPACES TO DATA. MOVE ZERGS TO DIST-VCC-LB.
      MOVE PRGGR-FLC TO FIELD-CH-LB.
      WRITE PRNT-LINE FROM FIELD-CH-LABEL AFTER ADVANCING 1 LINES.
      MOVE SPACES TO DATA. MOVE ZERGS TO FIELD-CH-LB.
      MOVE PRGGR-PCCL TO PCCL-CH-LB.
      WRITE PRNT-LINE FROM PCCL-CH-LABEL AFTER ADVANCING 1 LINES.
      MOVE SPACES TO DATA. MOVE ZERGS TO PCCL-CH-LB.
      MOVE PRGGR-MAINT TO MAINT-CH-LB.
      WRITE PRNT-LINE FROM MAINT-CH-LABEL AFTER ADVANCING 1 LINES.
      MOVE SPACES TO DATA. MOVE ZERGS TO MAINT-CH-LB.
      MOVE PRGGR-OH-TL TO PRGGR-IO-LB.
      WRITE PRNT-LINE FROM PRGGR-IOIN-SBTL AFTER
      ADVANCING 2 LINES.
      MOVE SPACES TO DATA. MOVE ZERGS TO PRGGR-IL-LB.
      MOVE PRGGR-EVESAL TO EVE-SAL-LB.
      WRITE PRNT-LINE FROM EVE-SAL-LABEL AFTER ADVANCING 2 LINES.
      MOVE SPACES TO DATA. MOVE ZERGS TO EVE-SAL-LB.
      MOVE C-AMT-HLD TO PRGGR-CR-LB.
      WRITE PRNT-LINE FROM PRGGR-CIR-LABEL AFTER ADVANCING 1 LINES.

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MOVE SPACES TO DATA. MOVE ZERCS TO PRGR-DR-LB.
MOVE PRGR-TL TO PRGR-TL-LB.
WRITE PRNT-LINE FROM PRGR-TL-LABEL AFTER ADVANCING 2 LINES.
MOVE SPACES TO DATA. MOVE ZERCS TO PRGR-TL-LB.
MOVE H-PRGR-TIH TO TIH-LB.
WRITE PRNT-LINE FROM TIH-LABEL AFTER ADVANCING 2 LINES.
MOVE SPACES TO DATA. MOVE ZERCS TO TIH-LB.
MOVE PRGR-CPHR TO COST-TIH-LB.
WRITE PRNT-LINE FROM COST-TIH-LABEL AFTER ADVANCING 2 LINES.
MOVE SPACES TO DATA. MOVE ZERCS TO COST-TIH-LB.
WRITE PRNT-LINE FROM LABEL-NCTE AFTER ADVANCING 2 LINES.
MOVE SPACES TO DATA.
MOVE ZERCS TO C-AMT-HLD, PRINT-TOTALS.
GC-TO-READ.
GO TO READ-DISK1.
DIVISION-LABEL.
IF C-DIV-HLD IS EQUAL TO 20, MOVE DZ TO D-NAME, ELSE
IF C-DIV-HLD IS EQUAL TO 21, MOVE D1 TO D-NAME, ELSE
IF C-DIV-HLD IS EQUAL TO 22, MOVE D2 TO D-NAME, ELSE
IF C-DIV-HLD IS EQUAL TO 23, MOVE D3 TO D-NAME, ELSE
IF C-DIV-HLD IS EQUAL TO 24, MOVE D4 TO D-NAME, ELSE
IF C-DIV-HLD IS EQUAL TO 25, MOVE D5 TO D-NAME, ELSE
IF C-DIV-HLD IS EQUAL TO 26, MOVE D6 TO D-NAME, ELSE
IF C-DIV-HLD IS EQUAL TO 27, MOVE D7 TO D-NAME, ELSE
IF C-DIV-HLD IS EQUAL TO 28, MOVE D8 TO D-NAME, ELSE
IF C-DIV-HLD IS EQUAL TO 29, MOVE D9 TO D-NAME, ELSE
WRITE PRNT-LINE FROM DIVISION-NAME AFTER ADVANCING 0 LINES.
MOVE SPACES TO D-NAME, DATA.
DIVISION-SUMMARIES.
ADD PRGR-DADM TO DIV-CADM.
ADD PRGR-VCC-CH TO DIV-VCC.
ADD PRGR-CADM TO DIV-CADM.
ADD PRGR-MAINT TO DIV-MAINT.
ADD PRGR-EVESAL TO DIV-EVESAL.
ADD PRGR-FLO TO DIV-FLO.
ADD PRGR-PCCL TO DIV-PCCL.
ADD PRGR-TL TO DIV-TL.
ADD H-PRGR-TIH TO DIV-TIH.
ADD PRGR-CH TO DIV-CH.
ADD C-AMT-HLD TO DIV-DIR.
ADD PRGR-CH-TL TO DIV-CH-TL.
DIVISION-SUM.
PERFORM DIVISION-LABEL.
WRITE PRNT-LINE FROM DIVISION-LABEL2 AFTER ADVANCING 2 LINES.
MOVE SPACES TO DATA.
MOVE DIV-DADM TO PRGR-DADM.
MOVE DIV-VCC TO PRGR-VCC-CH.
MOVE DIV-CADM TO PRGR-CADM.
MOVE DIV-MAINT TO PRGR-MAINT.
MOVE DIV-EVESAL TO PRGR-EVESAL.
MOVE DIV-FLO TO PRGR-FLO.
MOVE DIV-PCCL TO PRGR-PCCL.
MOVE DIV-TL TO PRGR-TL.
MOVE H-PRGR-TIH TO H-PRGR-TIH2. MOVE ZERCS TO H-PRGR-TIH.
MOVE DIV-TIH TO H-PRGR-TIH.
MOVE DIV-CH TO PRGR-CH.
MOVE C-AMT-HLD TO C-AMT-HLD2. MOVE ZERCS TO C-AMT-HLD.
MOVE DIV-DIR TO C-AMT-HLD.
MOVE DIV-CH-TL TO PRGR-CH-TL.
DIVIDE DIV-TIH INTO DIV-TL GIVING DIV-CPHR.
MOVE DIV-CPHR TO PRGR-CPHR.
PERFORM PRINT-CATAL.
MOVE ZERCS TO DIV-TOTALS1.
MOVE C-AMT-HLD2 TO C-AMT-HLD. MOVE ZERCS TO C-AMT-HLD2.
MOVE H-PRGR-TIH2 TO H-PRGR-TIH. MOVE ZERCS TO H-PRGR-TIH2.
CAMPUS-SUM.

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```

WRITE PRNT-LINE FROM CAMP-LABEL2 AFTER ADVANCING 0 LINES.
MOVE SPACES TO DATA.
MOVE C-CAM-HLD TO C-NAME.
WRITE PRNT-LINE FROM CAMPUS-LABEL AFTER ADVANCING 1 LINES.
MOVE SPACES TO DATA, C-NAME.
MOVE H-PRGR-TIH TO H-PRGR-TIH2. MOVE ZERCS TO H-PRGR-TIH.
MOVE C-AMT-HLD TO C-AMT-HLD2. MOVE ZERCS TO C-AMT-HLD.
MOVE CAMP-CADM TO PRGR-CADM.
MOVE CAMP-VCC TO PRGR-VCC-CH.
MOVE CAMP-CADM TO PRGR-CADM.
MOVE CAMP-DH-TL TO PRGR-CH-TL.
MOVE CAMP-CH TO PRGR-CH.
MOVE CAMP-MAINT TO PRGR-MAINT.
MOVE CAMP-FLO TO PRGR-FLO.
MOVE CAMP-PCCL TO PRGR-PCCL.
MOVE CAMP-TL TO PRGR-TL.
MOVE CAMP-TIH TO H-PRGR-TIH.
MOVE CAMP-DIR TO C-AMT-HLD.
MOVE CAMP-EVESAL TO PRGR-EVESAL.
DIVIDE CAMP-TIH INTO CAMP-TL GIVING CAMP-CPHR.
MOVE CAMP-CPHR TO PRGR-CPHR.
PERFORM PRINT-DATA1.
MOVE ZERCS TO CAMPUS-TOTALS2.
MOVE C-AMT-HLD2 TO C-AMT-HLD. MOVE ZERCS TO C-AMT-HLD2.
MOVE H-PRGR-TIH2 TO H-PRGR-TIH. MOVE ZERCS TO H-PRGR-TIH2.
DISTRICT-SUM.
WRITE PRNT-LINE FROM DIST-LABEL AFTER ADVANCING 0 LINES.
MOVE SPACES TO DATA.
MOVE ZERCS TO H-PRGR-TIH, C-AMT-HLD.
MOVE DIST-DADM TO PRGR-DADM.
MOVE DIST-VCC TO PRGR-VCC-CH.
MOVE DIST-CADM TO PRGR-CADM.
MOVE DIST-DH-TL TO PRGR-CH-TL.
MOVE DIST-MAINT TO PRGR-MAINT.
MOVE DIST-FLO TO PRGR-FLO.
MOVE DIST-PCCL TO PRGR-PCCL.
MOVE DIST-TL TO PRGR-TL.
MOVE DIST-TIH TO H-PRGR-TIH.
MOVE DIST-CH TO PRGR-CH.
MOVE DIST-DIR TO C-AMT-HLD.
MOVE DIST-EVESAL TO PRGR-EVESAL.
DIVIDE DIST-TIH INTO DIST-TL GIVING DIST-CPHR.
MOVE DIST-CPHR TO PRGR-CPHR.
PERFORM PRINT-DATA1.
ENC-OF-RLNB.
PERFORM DIVISION-SUM.
PERFORM CAMPUS-SUM.
PERFORM DISTRICT-SUM.
MOVE ADM4-FACTOR TO CPHR.
MOVE VCC4-FACTOR TO VCPHR.
MOVE ADM1-FACTOR TO FACPHR.
MOVE ADM2-FACTOR TO DACPHR.
MOVE ASFMAINT1-FACTOR TO FMCPHR.
MOVE ASFMAINT2-FACTOR TO CMCPHR.
MOVE EVESAL1-FACTOR TO FECPHR.
MOVE EVESAL2-FACTOR TO DECPHR.
WRITE PRNT-LINE FROM DADM-FACTOR AFTER ADVANCING 3 LINES.
WRITE PRNT-LINE FROM VCC-FACTOR AFTER ADVANCING 1 LINES.
WRITE PRNT-LINE FROM FH-ADM AFTER ADVANCING 1 LINES.
WRITE PRNT-LINE FROM DA-ADM AFTER ADVANCING 1 LINES.
WRITE PRNT-LINE FROM FH-MAINT AFTER ADVANCING 1 LINES.
WRITE PRNT-LINE FROM DA-MAINT AFTER ADVANCING 1 LINES.
WRITE PRNT-LINE FROM FH-EVE AFTER ADVANCING 1 LINES.
WRITE PRNT-LINE FROM DA-EVE AFTER ADVANCING 1 LINES.
CLOSE MER-TOTALS.
TIH-TOTALS.
PRGR-COST-FILE.
PRGR-HR-FILE.
PRGR-MERGE-FILE.
PRINTER.
STOP RUN.

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4.3 Subsystems

As previously discussed, two subsidiary computer programs were required to provide the appropriate data input for the computer program which generates the Instructional Program Total Costs Report. These computer programs were developed as the MER Data Summary Report and the Class Master File Data Summary Report. The programming language used was the same as the main program system. That is, COBOL/360.

The MER Data Summary Report program is identified by the computer as "LAS1" and generates a recapitulation of fiscal year end expenditures. The output of this program is found in Section 5.2. The Class Master File Data Summary Report program is identified by the computer as "LAS1" and generates a summary of the fiscal year's class hours by types (day, evening, vocational, etc.) as well as assignable square footage of classrooms used in instructional programs. The output of this program is also found in Section 5.2.

For each of these subsystem programs, the input data was obtained from data sources within the Foothill District accounting and instructional services system. This input data served as the test data bank for the simulation program model of the study (Instructional Program Total Cost Report). However, for the data to be used properly by the simulation model, the two subsystem programs

described in this section were required. The test data bank incorporated the fiscal year 1969-70.

SOURCE STATEMENT CBN CLS-9 10/26/71

IDENTIFICATION DIVISION.
PROGRAM-ID. 'LASI'.
AUTHOR. LEE STEVE AS.
INSTALLATION. FORT HILL COMMUNITY COLLEGE DISTRICT.
DATE-WRITTEN. OCTOBER, 1971.

REMARKS. THIS PROGRAM RECAPS JUNE 30TH MER-EXPENSE DATA
FOR INDIRECT COST ALLOCATION PROGRAM.
THIS PROGRAM ACCEPTS FUND CODES 01, AND A1.
ANY OTHER FUND CODE WILL BE PRINTED OUT AT END OF
DATA SHEET. AREA CODES WHICH APPEAR WITH WRONG
CAMPUS CODES WILL ALSO BE IN THE ERROR PRINT -
OUT.

ENVIRONMENT DIVISION.
CONFIGURATION SECTION.
SOURCE-COMPUTER. IBM-360 G4C.
OBJECT-COMPUTER. IBM-360 G4C.
INPUT-OUTPUT SECTION.

FILE-CONTROL.
SELECT MER-TO-DATE-FILE ASSIGN TO 'SYS010' UNIT-RECORD 2540R.
SELECT PRINTER ASSIGN TO 'SYS012' UNIT-RECORD 1403.
SELECT PUNCH ASSIGN TO 'SYS011' UNIT-RECORD 2540P.
SELECT DISK-IN ASSIGN TO 'SYS014' UTILITY 2314.
SELECT ERRORS-TO-DISK ASSIGN TO 'SYS015' UTILITY 2314.

DATA DIVISION.
FILE SECTION.
FC MER-TO-DATE-FILE
RECORDING MODE IS F
RECORD CONTAINS 60 CHARACTERS
LABEL RECORDS ARE OMITTED
DATA RECORD IS EXPENSE-RECORD.

01 EXPENSE-RECORD.
02 FILLER PICTURE X(35).
02 FUND-CODE PICTURE XX.
02 CAMPUS-CODE PICTURE S.
02 FILLER PICTURE X(5).
02 AREA-CODE.
03 DIV-CODE PICTURE S9.
03 PROG-CODE PICTURE S9.
02 FILLER PICTURE X(22).
02 AMOUNT PICTURE 9(8)V99.
02 FILLER PICTURE S.

FC DISK-IN
RECORDING MODE IS F
BLOCK CONTAINS 207 RECORDS
RECORD CONTAINS 17 CHARACTERS
LABEL RECORDS ARE STANDARD
DATA RECORD IS PROG-TO-DISK.

01 PROG-TO-DISK.
02 C-CAM PICTURE X.
02 C-DIV PICTURE XX.
02 C-AREA PICTURE X(4).
02 C-AMT PICTURE 9(8)V99.

FC PRINTER
RECORDING MODE IS F
RECORD CONTAINS 133 CHARACTERS
LABEL RECORDS ARE OMITTED
DATA RECORD IS A-LINE.

01 A-LINE.
02 DATA PICTURE X(133).

FC PUNCH
RECORDING MODE IS F
RECORD CONTAINS 72 CHARACTERS
LABEL RECORDS ARE OMITTED

DATA RECORD IS A-LINE.
01 A-LINE.
02 P-CODE PICTURE X(3).
02 FILLER PICTURE X(3).
02 P-CAM PICTURE X.
02 FILLER PICTURE X(5).
02 P-DIV PICTURE XX.
02 FILLER PICTURE X(5).
02 P-AREA PICTURE X(4).
02 FILLER PICTURE X(5).
02 P-DISCKP PICTURE X(30).
02 FILLER PICTURE X(4).
02 P-AMT PICTURE 9(8)V99.

FC ERRORS-TO-DISK
RECORDING MODE IS F
BLOCK CONTAINS 48 RECORDS
RECORD CONTAINS 72 CHARACTERS
LABEL RECORDS ARE STANDARD
DATA RECORD IS E-LINE.

01 E-LINE.
02 DATA-ERROR PICTURE X(72).

WORKING-STORAGE SECTION.
77 A1 PICTURE X(30) VALUE 'CAMPUS CENTER'
77 A2 PICTURE X(30) VALUE 'AUXILIARY SERVICES'
77 A3 PICTURE X(30) VALUE 'EVENING CERTIFICATED SALARIES'
77 A4 PICTURE X(30) VALUE 'INSTRUCTIONAL ADMINISTRATION'
77 A5 PICTURE X(30) VALUE 'STUDENT PERSONNEL'
77 A6 PICTURE X(30) VALUE 'LIBRARY SERVICES'
77 C2 PICTURE X(30) VALUE 'LIBRARY TECH PROGRAM'
77 D1 PICTURE X(30) VALUE 'BIOLOGICAL SCIENCES'
77 C2 PICTURE X(30) VALUE 'BUSINESS AND DATA PROCESSING'
77 C3 PICTURE X(30) VALUE 'ENGINEERING AND TECHNOLOGY'
77 D4 PICTURE X(30) VALUE 'FINE ARTS'
77 D5 PICTURE X(30) VALUE 'LANGUAGE ARTS'
77 D6 PICTURE X(30) VALUE 'ETHNIC STUDIES'
77 D7 PICTURE X(30) VALUE 'PHYSICAL EDUCATION'
77 D8 PICTURE X(30) VALUE 'PHYSICAL SCIENCE AND MATH'
77 D9 PICTURE X(30) VALUE 'SOCIAL SCIENCE'
77 A7 PICTURE X(30) VALUE 'HEALTH SERVICES 4101-4201'
77 A8 PICTURE X(30) VALUE 'PLANT OPERATION 6101-6199'
77 A9 PICTURE X(30) VALUE 'CAMPUS ADMINISTRATION TOTAL'
77 A9A PICTURE XX VALUE 'A9'.
77 B1 PICTURE X(30) VALUE 'DIVISION OVERHEAD AND SALARIES'.
77 E3E PICTURE XX VALUE 'E3'.
77 F3F PICTURE XX VALUE 'F3'.
77 Q1Q PICTURE XX VALUE 'Q1'.
77 D2E PICTURE XX VALUE 'D2'.
77 L8AREA PICTURE X(4) VALUE '2054'.
77 L8DIV PICTURE XX VALUE '20'.
77 A3A PICTURE XX VALUE 'A3'.
77 C-CHTR PICTURE 9(8)V99 VALUE ZER0.
77 AUX-SERV PICTURE 9(8)V99 VALUE ZER0.
77 EVE-SAL PICTURE 9(8)V99 VALUE ZER0.
77 INSTR-ADM PICTURE 9(8)V99 VALUE ZER0.
77 STU-PERS PICTURE 9(8)V99 VALUE ZER0.
77 LIBR-SERV PICTURE 9(8)V99 VALUE ZER0.
77 HEALTH-SERV PICTURE 9(8)V99 VALUE ZER0.
77 PLANT-OPER PICTURE 9(8)V99 VALUE ZER0.
77 GRCS-OPER PICTURE 9(8)V99 VALUE ZER0.
77 FIELD-OPER PICTURE 9(8)V99 VALUE ZER0.
77 PUBL-OPER PICTURE 9(8)V99 VALUE ZER0.
77 VEH-OPER PICTURE 9(8)V99 VALUE ZER0.
77 TEL-COPER PICTURE 9(8)V99 VALUE ZER0.
77 UTIL-OPER PICTURE 9(8)V99 VALUE ZER0.
77 PLANT-MAINT PICTURE 9(8)V99 VALUE ZER0.
77 FIELD-MAINT PICTURE 9(8)V99 VALUE ZER0.
77 PUBL-MAINT PICTURE 9(8)V99 VALUE ZER0.
77 GRCS-MAINT PICTURE 9(8)V99 VALUE ZER0.
77 VEH-MAINT PICTURE 9(8)V99 VALUE ZER0.
77 EQ-MAINT PICTURE 9(8)V99 VALUE ZER0.

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77 ADM-TOTAL          PICTURE S(8)V99      VALUE ZERC.
77 CIV-CIR-EXP        PICTURE S(8)V99      VALUE ZERC.
77 CIV-OH              PICTURE S(8)V99      VALUE ZERC.
77 CUITIQUE           PICTURE X            VALUE SPACE.
77 ERR-CK-SWITCH      PICTURE X            VALUE SPACE.
77 REC-CNT            PICTURE S(4)          VALUE ZERC.
77 CAM-ADM-TL         PICTURE S(8)V99      VALUE ZERC.
77 CHER-PLANT-OPER    PICTURE S(8)V99      VALUE ZERC.
77 CAM-FLU-TL         PICTURE S(8)V99      VALUE ZERC.
77 CAM-POOL-TL        PICTURE S(8)V99      VALUE ZERC.
77 CAM-MAINT-TL       PICTURE S(8)V99      VALUE ZERC.
77 CONTR-TL           PICTURE S(10)V99     VALUE ZERC.
77 CAM-CIR-EXP        PICTURE S(8)V99      VALUE ZERC.
77 CAM-CIV-OH         PICTURE S(8)V99      VALUE ZERC.
77 COLL-TL            PICTURE S(8)V99      VALUE ZERC.
77 COLL-GRD-TL        PICTURE S(8)V99      VALUE ZERC.
77 CUM-COLL-GRD-TL    PICTURE S(8)V99      VALUE ZERC.
77 SUPT-OFFICE        PICTURE S(8)V99      VALUE ZERC.
77 EC-SERV            PICTURE S(8)V99      VALUE ZERC.
77 COM-SERV           PICTURE S(8)V99      VALUE ZERC.
77 BUS-SERV           PICTURE S(8)V99      VALUE ZERC.
77 CATA-SERV          PICTURE S(8)V99      VALUE ZERC.
77 PUB-TRANS          PICTURE S(8)V99      VALUE ZERC.
77 FIXEC-CHRC         PICTURE S(8)V99      VALUE ZERC.
77 CIS-ADM            PICTURE S(8)V99      VALUE ZERC.
77 VDC-ADM            PICTURE S(8)V99      VALUE ZERC.
77 CIS-GRD-TL         PICTURE S(8)V99      VALUE ZERC.
77 CUM-CIS-GRD-TL     PICTURE S(8)V99      VALUE ZERC.
77 ER-TOTAL           PICTURE S(8)V99      VALUE ZERC.
77 PRGR-DIR-EXP       PICTURE S(8)V99      VALUE ZERC.
77 LIBR-TOTAL         PICTURE S(8)V99      VALUE ZERC.
77 STJP-GO            PICTURE S9           VALUE ZERC.
77 CAM-SERV-TL        PICTURE S(8)V99      VALUE ZERC.
77 CIV-TOTAL          PICTURE S(8)V99      VALUE ZERC.
77 C1 PICTURE X(30)    VALUE 'GROUNDS OPERATION 6200-6219'.
77 E1 PICTURE X(30)    VALUE 'FIELD OPERATION 6220-6229'.
77 F1 PICTURE X(30)    VALUE 'POOL OPERATION 6230-6239'.
77 G1 PICTURE X(30)    VALUE 'VEHICLE OPERATION 6300-6399'.
77 H1 PICTURE X(30)    VALUE 'TELE OPERATION 6400-6499'.
77 J1 PICTURE X(30)    VALUE 'UTILITIES OPERATION 6700-6799'.
77 P1 PICTURE X(30)    VALUE 'OTHER PLANT OPER 6900-6999'.
77 K1 PICTURE X(30)    VALUE 'PLANT MAINTENANCE 7100-7199'.
77 E2 PICTURE X(30)    VALUE 'FIELD MAINTENANCE 7218 '.
77 F2 PICTURE X(30)    VALUE 'POOL MAINTENANCE 7219 '.
77 L1 PICTURE X(30)    VALUE 'GROUNDS MAINTENANCE 7200-7299'.
77 M1 PICTURE X(30)    VALUE 'VEHICLE MAINTENANCE 7301 '.
77 N1 PICTURE X(30)    VALUE 'EQUIP MAINTENANCE 7302 '.
77 V12 PICTURE X(20)   VALUE 'DISTRICT ADM SUBTOTAL '.
77 S1 PICTURE X(30)    VALUE 'DIVISION DIRECT EXPENSE TOTAL '.
77 E3 PICTURE X(30)    VALUE 'FIELD OPERATION/MAINTENANCE '.
77 F3 PICTURE X(30)    VALUE 'POOL OPERATION/MAINTENANCE '.
77 Q1 PICTURE X(30)    VALUE 'GEN OPER-MAINT TOTAL '.
77 R1 PICTURE X(30)    VALUE 'EVENING SALARIES TOTAL '.
77 T1 PICTURE X(30)    VALUE 'CAMPUS TOTAL '.
77 T2 PICTURE X(30)    VALUE 'ERROR ROUTINE TOTAL '.
77 T3 PICTURE X(30)    VALUE 'CAMPUS GRAND TOTAL '.
77 V1 PICTURE X(30)    VALUE 'SUPERINTENDENTS CFF 0100-0109'.
77 V2 PICTURE X(30)    VALUE 'EDUC SERVICES 0200-0229'.
77 V3 PICTURE X(30)    VALUE 'VOC EDUC SERVICES 0230-0239'.
77 V4 PICTURE X(30)    VALUE 'COMM SERVICES-FUND 1 0260-0269'.
77 V5 PICTURE X(30)    VALUE 'BUSINESS SERVICES 0400-0403'.
77 V6 PICTURE X(30)    VALUE 'DATA SERVICES 0404 '.
77 V7 PICTURE X(30)    VALUE 'PUBLIC TRANSPORT 0590 '.
77 V8 PICTURE X(30)    VALUE 'FIXED CHARGES 0800-0805'.
77 V9 PICTURE X(30)    VALUE 'DISTRICT OPERATION TOTAL '.
77 V10 PICTURE X(30)   VALUE 'DISTRICT OPERATION GRAND TOTAL '.
77 V11 PICTURE X(30)   VALUE 'CAMPUS 1,2,4,ERRORS TO BAL PER'.
77 V12V PICTURE X(3)   VALUE 'V12 '.
77 V3V PICTURE X(2)    VALUE 'V3 '.
77 HLC-CAM            PICTURE X            VALUE SPACLS.
77 HLC-FUND           PICTURE XX           VALUE SPACES.

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01 HLC-AREA.
02 HLC-CIV            PICTURE XX           VALUE SPACES.
02 HLC-PRGR           PICTURE XX           VALUE SPACES.
01 ERR-RECORD.
02 FILLER             PICTURE X(5)        VALUE 'FUNO'.
02 ER-FUND            PICTURE XX           VALUE SPACES.
02 FILLER             PICTURE X(4)        VALUE SPACES.
02 FILLER             PICTURE X(7)        VALUE 'CAMPUS-'.
02 ER-CAM             PICTURE X            VALUE SPACES.
02 FILLER             PICTURE X(5)        VALUE SPACES.
02 FILLER             PICTURE X(10)       VALUE 'AREA CCDE-'.
02 ER-AREA            PICTURE X(4)        VALUE SPACES.
02 FILLER             PICTURE X(5)        VALUE SPACES.
02 FILLER             PICTURE X(6)        VALUE 'AMCUNT $'.
02 ER-AMT             PICTURE S(8)V99     VALUE ZERCS.
02 FILLER             PICTURE X(5)        VALUE SPACES.
01 LINE-A.
02 FILLER PICTURE X(44)  VALUE SPACES.
02 FILLER PICTURE X(35)  VALUE 'FOOTHILL COMMUNITY COLLEGE
' DISTRICT'.
02 FILLER PICTURE X(54)  VALUE SPACES.
01 LINE-B.
02 FILLER PICTURE X(50)  VALUE SPACES.
02 FILLER PICTURE X(24)  VALUE 'INDIRECT COST ALLOCATION'.
02 FILLER PICTURE X(59)  VALUE SPACES.
01 LINE-C.
02 FILLER PICTURE X(50)  VALUE SPACES.
02 FILLER PICTURE X(25)  VALUE 'WORKING TOTALS-MER FILE'.
02 FILLER PICTURE X(58)  VALUE SPACES.
01 LINE-D.
02 FILLER PICTURE X(20)  VALUE SPACES.
02 FILLER PICTURE X(7)   VALUE 'CAMPUS '.
02 C-CODE PICTURE X      VALUE SPACES.
02 FILLER PICTURE X(105) VALUE SPACES.
01 LINE-E.
02 FILLER PICTURE X(20)  VALUE SPACES.
02 FILLER PICTURE X(21)  VALUE 'CAMPUS SUMMARY TOTALS'.
02 FILLER PICTURE X(42)  VALUE SPACES.
02 FILLER PICTURE X(5)   VALUE 'COSTS'.
02 FILLER PICTURE X(35)  VALUE SPACES.
01 PRGR-NAME.
02 FILLER PICTURE X(25)  VALUE SPACES.
02 A-C-1 PICTURE X(4)    VALUE SPACES.
02 FILLER PICTURE X(40)  VALUE SPACES.
02 EXP-1 PICTURE Z(7)9.95.
02 FILLER PICTURE X(43)  VALUE SPACES.
01 DIVISION-NAME.
02 FILLER PICTURE X(20)  VALUE SPACES.
02 C-NAME PICTURE X(30)  VALUE SPACES.
02 FILLER PICTURE X(83)  VALUE SPACES.
01 DIVISION-OVERHEAD.
02 FILLER PICTURE X(25)  VALUE SPACES.
02 FILLER PICTURE X(23)  VALUE 'DIVISION OVERHEAD COSTS'.
02 FILLER PICTURE X(31)  VALUE SPACES.
02 CH-EXP PICTURE Z(7)9.95.
02 FILLER PICTURE X(43)  VALUE SPACES.
01 CIV-DIRECT-TOTALS.
02 FILLER PICTURE X(25)  VALUE SPACES.
02 FILLER PICTURE X(21)  VALUE 'DIVISION DIRECT COSTS'.
02 FILLER PICTURE X(33)  VALUE SPACES.
02 C-T-C PICTURE Z(7)9.95.
02 FILLER PICTURE X(41)  VALUE SPACES.

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01 DIV-GRAVE-TOTALS.
 02 FILLER PICTURE X(25) VALUE SPACES.
 02 FILLER PICTURE X(24) VALUE 'DIVISION TOTAL-ALL COSTS'.
 02 FILLER PICTURE X(30) VALUE SPACES.
 02 DIV-TL PICTURE Z(7)9.99.
 02 FILLER PICTURE X(43) VALUE SPACES.

01 MISC-LABELS.
 02 FILLER PICTURE X(25) VALUE SPACES.
 02 A-NAME PICTURE X(30) VALUE SPACES.
 02 FILLER PICTURE X(24) VALUE SPACES.
 02 A-EXP PICTURE Z(7)9.99.
 02 FILLER PICTURE X(43) VALUE SPACES.

PROCEDURE DIVISION.
 START-PROCESSING.
 UPLN INPUT MER-TO-DATE-FILE,
 OUTPUT DISK-IN, PUNCH, PRINTER, ERRORS-TO-DISK.
 PERFORM FEAD.

MER-FILE.
 READ MER-TO-DATE-FILE AT END
 GO TO END-OF-RUN.
 ADD 1 TO REC-CNT, ADD AMOUNT TO CONTR-IL.

CHECK-LIST.
 IF FUND-CODE GREATER THAN C1 GO TO ERROR-CK.
 IF HLC-CAM EQUAL TO SPACES, MOVE CAMPLS-CODE TO HLD-CAM,
 PERFORM FEADING2.

CAMPUS-CODE-CK.
 IF CAMPUS-CODE EQUAL TO HLD-CAM, GO TO CAMPUS-TOTALS1
 OTHERWISE, GO TO CAM-3-CK.

CAMPUS-TOTALS1.
 IF CAMPUS-CODE EQUAL TO 3, GO TO ERROR-CK.
 IF CAMPUS-CODE IS GREATER THAN 4, GO TO ERROR-CK.
 IF CAMPUS-CODE EQUAL TO 4 GO TO DISTR-SUBTOTALS1.
 IF AREA-CODE IS LESS THAN C500, GO TO ERROR-CK.
 IF AREA-CODE IS LESS THAN C531, ADD AMOUNT TO C-CONTR,
 GO TO MER-FILE.
 IF AREA-CODE IS LESS THAN 1191, GO TO ERROR-CK.
 IF AREA-CODE IS LESS THAN 1200, ADD AMOUNT TO AUX-SERV, GO TO
 MER-FILE.
 IF AREA-CODE IS LESS THAN 2000, GO TO ERROR-CK.
 IF AREA-CODE IS EQUAL TO 2007, ADD AMOUNT TO EVE-SAL, GO TO
 MER-FILE.
 IF AREA-CODE IS EQUAL TO 2011, GO TO ERROR-CK.
 IF AREA-CODE IS LESS THAN 2030, ADD AMOUNT TO INSTR-ADM,
 GO TO MER-FILE.
 IF AREA-CODE IS LESS THAN 2040, ADD AMOUNT TO STU-PERS,
 GO TO MER-FILE.
 IF AREA-CODE IS LESS THAN 2050, GO TO ERROR-CK.
 IF AREA-CODE IS LESS THAN 2060, GO TO LIBR-CK,
 OTHERWISE, GO TO VACANT-AREA.

LIBR-CK.
 IF AREA-CODE IS EQUAL TO 2054, GO TO LIBR-TECH-PROGR1,
 OTHERWISE, ADD AMOUNT TO LIBR-SERV, GO TO MER-FILE.

VACANT-AREA.
 IF AREA-CODE IS LESS THAN 2100, GO TO ERROR-CK.
 IF AREA-CODE IS LESS THAN 4000, GO TO PROGR-AREA.
 IF AREA-CODE IS LESS THAN 4100, GO TO ERROR-CK.
 IF AREA-CODE IS LESS THAN 4202, ADD AMOUNT TO HEALTH-SERV,
 GO TO MER-FILE.

MAINT-AREA.
 IF AREA-CODE IS LESS THAN 6101, GO TO ERROR-CK.
 IF AREA-CODE IS LESS THAN 6200, ADD AMOUNT TO PLANT-CPER
 GO TO MER-FILE.

IF AREA-CODE IS LESS THAN 6220, ADD AMOUNT TO GRDS-OPER,
 GO TO MER-FILE.
 IF AREA-CODE IS LESS THAN 6230, ADD AMOUNT TO FIELD-CPER,
 GO TO MER-FILE.
 IF AREA-CODE IS LESS THAN 6240, ADD AMOUNT TO POOL-CPER,
 GO TO MER-FILE.
 IF AREA-CODE IS LESS THAN 6300, GO TO ERROR-CK.
 IF AREA-CODE IS LESS THAN 6400, ADD AMOUNT TO VEH-CPER,
 GO TO MER-FILE.
 IF AREA-CODE IS LESS THAN 6600, GO TO ERROR-CK.
 IF AREA-CODE IS LESS THAN 6700, ADD AMOUNT TO TEL-CPER,
 GO TO MER-FILE.
 IF AREA-CODE IS LESS THAN 6800, ADD AMOUNT TO UTIL-CPER,
 GO TO MER-FILE.
 IF AREA-CODE IS LESS THAN 6900, GO TO ERROR-CK.
 IF AREA-CODE IS LESS THAN 7000, ADD AMOUNT TO
 OTHER-PLANT-OPER, GO TO MER-FILE.
 IF AREA-CODE IS LESS THAN 7100, GO TO ERROR-CK.
 IF AREA-CODE IS LESS THAN 7200, ADD AMOUNT TO PLANT-MAINT,
 GO TO MER-FILE.
 IF AREA-CODE IS EQUAL TO 7218, ADD AMOUNT TO FIELD-MAINT,
 GO TO MER-FILE.
 IF AREA-CODE IS EQUAL TO 7219, ADD AMOUNT TO POOL-MAINT,
 GO TO MER-FILE.
 IF AREA-CODE IS LESS THAN 7300, ADD AMOUNT TO GRDS-MAINT,
 GO TO MER-FILE.
 IF AREA-CODE IS EQUAL TO 7301, ADD AMOUNT TO VEH-MAINT,
 GO TO MER-FILE.
 IF AREA-CODE IS EQUAL TO 7302, ADD AMOUNT TO EQ-MAINT,
 GO TO MER-FILE, OTHERWISE, GO TO ERROR-CK.

PROGR-AREA.
 IF STOP-CG IS EQUAL TO 88, PERFORM LIBR-TECH-PROGR2.

PROGR-AREA1.
 IF HLD-DIV IS EQUAL TO SPACES, MOVE DIV-CODE TO HLD-DIV,
 PERFORM DIVISION-LABEL-1 ELSE
 IF HLC-DIV IS NOT EQUAL TO DIV-CODE, PERFORM PROGR-LABELS,
 PERFORM DIVISION-SUBTOTALS,
 PERFORM DIVISION-LABEL-1,
 MOVE DIV-CODE TO HLD-DIV.
 IF ERR-CK-SWITCH IS EQUAL TO 1, GO TO ERROR-CK.
 IF PROGR-CODE IS LESS THAN C4,
 ADD AMOUNT TO DIV-CH,
 ADD AMOUNT TO CAM-DIV-CH,
 GO TO MER-FILE.

PROGR-AREA2.
 IF HLC-PROGR IS EQUAL TO SPACES, MOVE PROGR-CODE TO HLD-PROGR
 ELSE
 IF PROGR-CODE IS NOT EQUAL TO HLD-PROGR,
 PERFORM PROGR-LABELS,
 MOVE PROGR-CODE TO HLD-PROGR.

PROGR-SUBTOTALS.
 ADD AMOUNT TO PROGR-DIR-EXP.
 ADD AMOUNT TO DIV-DIR-EXP.
 ADD AMOUNT TO CAM-DIR-EXP.
 GO TO MER-FILE.

DIVISION-SUBTOTALS.
 MOVE DIV-CH TO CH-EXP.
 MOVE DIV-DIR-EXP TO D-T-D.
 ADD DIV-CH DIV-DIR-EXP GIVING DIV-TOTAL.
 MOVE DIV-TOTAL TO DIV-IL.
 WRITE A-LINE FROM DIV-DIRECT-TOTALS AFTER ADVANCING 2 LINES,
 MOVE SPACES TO DATA.
 WRITE A-LINE FROM DIVISION-OVERHEAD AFTER ADVANCING 2 LINES,
 MOVE SPACES TO DATA.
 WRITE A-LINE FROM DIV-GRAVE-TOTALS AFTER ADVANCING 2 LINES,
 MOVE SPACES TO DATA.

MOVE SPACES TO A-LINE.
 MOVE FLD-CAM TO P-CAM.
 MOVE FLD-DIV TO P-DIV.
 MOVE B1 TO P-DISCRP.
 MOVE DIV-OH TO P-AMT.
 WRITE A-LINE.
 MOVE ZEROS TO DIV-OH, OH-EXP, E-T-D, DIV-TOTAL, DIV-TL,
 DIV-CHK-EXP.

 DIVISION-LABEL-1.
 IF DIV-CODE IS EQUAL TO 21, MOVE D1 TO D-NAME, ELSE
 IF DIV-CODE IS EQUAL TO 22, MOVE D2 TO D-NAME, ELSE
 IF DIV-CODE IS EQUAL TO 23, MOVE D3 TO D-NAME, ELSE
 IF DIV-CODE IS EQUAL TO 24, MOVE D4 TO D-NAME, ELSE
 IF DIV-CODE IS EQUAL TO 25, MOVE D5 TO D-NAME, ELSE
 IF DIV-CODE IS EQUAL TO 26, MOVE D6 TO D-NAME, ELSE
 IF DIV-CODE IS EQUAL TO 27, MOVE D7 TO D-NAME, ELSE
 IF DIV-CODE IS EQUAL TO 28, MOVE D8 TO D-NAME, ELSE
 IF DIV-CODE IS EQUAL TO 29, MOVE D9 TO D-NAME, ELSE
 MOVE 1 TO ERR-CK-SWITCH.
 PERFORM HEADING2.
 WRITE A-LINE FROM DIVISION-NAME AFTER ADVANCING 3 LINES.
 MOVE SPACES TO D-NAME, DATA.

 PRGR-LABELS.
 MOVE FLD-AREA TO A-C-1.
 MOVE PRGR-DIR-EXP TO EXP-1.
 WRITE A-LINE FROM PRGR-NAME AFTER ADVANCING 1 LINES.
 MOVE FLD-DIV TO D-DIV.
 MOVE FLD-AREA TO D-AREA.
 MOVE FLD-CAM TO D-CAM.
 MOVE PRGR-DIR-EXP TO D-AMT.
 WRITE PRGR-TO-DISK.
 MOVE ZEROS TO PRGR-DIR-EXP,
 MOVE ZEROS TO EXP-1.

 LIBR-TECH-PRGR1.
 ADD AMJUNT TO LIBR-TOTAL,
 MOVE 89 TO STOP-GO.
 ADD AMJUNT TO CAM-DIR-EXP,
 GO TO MER-FILE.

 LIBR-TECH-PRGR2.
 MOVE C2 TO D-NAME.
 WRITE A-LINE FROM DIVISION-NAME AFTER ADVANCING 3 LINES.
 MOVE SPACES TO D-NAME, DATA.
 MOVE LIBR-TOTAL TO EXP-1.
 MOVE LIBR-TOTAL TO DIV-TL.
 MOVE LBAREA TO A-C-1.
 MOVE ZEROS TO OH-EXP.
 MOVE LIBR-TOTAL TO D-T-D.
 WRITE A-LINE FROM PRGR-NAME AFTER ADVANCING 1 LINES.
 WRITE A-LINE FROM DIV-DIRECT-TOTALS AFTER ADVANCING 2 LINES.
 WRITE A-LINE FROM DIVISION-OVERHEAD AFTER ADVANCING 2 LINES.
 WRITE A-LINE FROM DIV-GRAND-TOTALS AFTER ADVANCING 2 LINES.
 MOVE LIBR-TOTAL TO D-AMT.
 MOVE FLD-CAM TO E-CAM.
 MOVE LBAREA TO D-AREA.
 MOVE LDCIV TO D-DIV.
 WRITE PRGR-TO-DISK.
 MOVE ZEROS TO D-T-D,
 EXP-1,
 DIV-TL,
 OH-EXP.
 MOVE 99 TO STOP-GO.
 MOVE SPACES TO A-C-1.
 MOVE SPACES TO B-LINE,
 MOVE C2C TO P-CODE.
 MOVE B1 TO P-DISCRP.
 MOVE LDCIV TO P-DIV.

MOVE ZEROS TO P-AMT,
 MOVE FLD-CAM TO P-CAM.
 WRITE A-LINE.

 CAMP-CHK.
 IF CAMPUS-CODE IS EQUAL TO 3, GO TO ERROR-CK.
 IF CAMPUS-CODE IS GREATER THAN 4, GO TO ERROR-CK.

 LAST-CARD-SUM.
 PERFORM PRGR-LABELS.
 PERFORM DIVISION-SUBTOTALS.

 CAMPUS-TOTAL-ADM.
 ADD C-CNTR, AUX-SERV, INSTN-ADM, STU-PERS, LIBR-SERV,
 HEALTH-SERV TO CAM-ADM-TL.
 ADD CAM-ADM-TL TO CAM-SERV-TL.
 PERFORM HEADING2.
 MOVE C-CNTR TO A-EXP,
 MOVE A1 TO A-NAME.
 PERFORM WRITE-A-LINE3.
 MOVE AUX-SERV TO A-EXP,
 MOVE A2 TO A-NAME.
 PERFORM WRITE-A-LINE1.
 MOVE INSTN-ADM TO A-EXP,
 MOVE A4 TO A-NAME.
 PERFORM WRITE-A-LINE1.
 MOVE STU-PERS TO A-EXP,
 MOVE A5 TO A-NAME.
 PERFORM WRITE-A-LINE1.
 MOVE LIBR-SERV TO A-EXP,
 MOVE A6 TO A-NAME.
 PERFORM WRITE-A-LINE1.
 MOVE HEALTH-SERV TO A-EXP,
 MOVE HEALTH-SERV TO A-EXP,
 MOVE A7 TO A-NAME.
 PERFORM WRITE-A-LINE1.
 MOVE CAM-ADM-TL TO A-EXP,
 MOVE A9 TO A-NAME.
 WRITE A-LINE FROM MISC-LABELS AFTER ADVANCING 2 LINES.
 MOVE SPACES TO DATA,
 MOVE ZEROS TO A-EXP,
 MOVE SPACES TO A-NAME.
 MOVE SPACES TO B-LINE.
 MOVE A9A TO P-CODE.
 MOVE FLD-CAM TO P-CAM.
 MOVE A7 TO P-DISCRP.
 MOVE CAM-ADM-TL TO P-AMT.
 WRITE B-LINE.
 MOVE ZEROS TO CAM-ADM-TL.

 CAMPUS-TOTAL-FLD.
 ADD FELD-OPER, FIELD-MAINT TO CAM-FLD-TL.
 ADD CAM-FLD-TL TO CAM-SERV-TL.

 CAM-FLC1.
 MOVE FIELD-OPER TO A-EXP,
 MOVE E1 TO A-NAME.
 PERFORM WRITE-A-LINE3.
 MOVE FIELD-MAINT TO A-EXP,
 MOVE E2 TO A-NAME.
 PERFORM WRITE-A-LINE1.

 CAM-FLC2.
 MOVE CAM-FLD-TL TO A-EXP,
 MOVE E3 TO A-NAME.
 WRITE A-LINE FROM MISC-LABELS AFTER ADVANCING 2 LINES.
 MOVE SPACES TO DATA,
 MOVE ZEROS TO A-LXP,
 MOVE SPACES TO A-NAME,
 MOVE SPACES TO B-LINE.
 MOVE E3C TO P-CODE.

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      MOVE HLD-CAM TO P-CAM.
      MOVE E3 TO P-DISCRP.
      MOVE CAM-HLD-TL TO P-AMT.
      WRITE B-LINE.
      MOVE ZEROS TO CAM-HLD-TL.

CAMPUS-TOTAL-PL.
  ADD POOL-OPER, POOL-MAINT TO CAM-POOL-TL.
  ADD CAM-POOL-TL TO CAM-SERV-TL.

CAM-POOL1.
  MOVE POOL-OPER TO A-EXP,
  MOVE F1 TO A-NAME.
  PERFORM WRITE-A-LINE3.
  MOVE POOL-MAINT TO A-EXP,
  MOVE F2 TO A-NAME.
  PERFORM WRITE-A-LINE1.

CAM-POOL2.
  MOVE CAM-POOL-TL TO A-EXP,
  MOVE F3 TO A-NAME.
  WRITE A-LINE FROM MISC-LABELS AFTER ADVANCING 2 LINES.
  MOVE SPACES TO DATA,
  MOVE ZEROS TO A-EXP,
  MOVE SPACES TO A-NAME,
  MOVE SPACES TO B-LINE.
  MOVE F3F TO P-CODE.
  MOVE HLD-CAM TO P-CAM.
  MOVE E3 TO P-DISCRP,
  MOVE CAM-POOL-TL TO P-AMT.
  WRITE B-LINE.
  MOVE ZEROS TO CAM-POOL-TL.

CAMPUS-TOTAL-MAINT.
  ADD PLANT-OPER, GRDS-OPER, VEH-OPER, TEL-OPER, UTIL-OPER,
  PLANT-MAINT, GRDS-MAINT, VEH-MAINT, EQ-MAINT,
  OTHER-PLANT-OPER TO CAM-MAINT-TL.
  ADD CAM-MAINT-TL TO CAM-SERV-TL.

CAM-MAINT1.
  MOVE PLANT-OPER TO A-EXP,
  MOVE A3 TO A-NAME.
  PERFORM WRITE-A-LINE3.
  MOVE GRDS-OPER TO A-EXP,
  MOVE C1 TO A-NAME.
  PERFORM WRITE-A-LINE1.
  MOVE VEH-OPER TO A-EXP,
  MOVE G1 TO A-NAME.
  PERFORM WRITE-A-LINE1.
  MOVE TEL-OPER TO A-EXP,
  MOVE H1 TO A-NAME.
  PERFORM WRITE-A-LINE1.
  MOVE UTIL-OPER TO A-EXP,
  MOVE J1 TO A-NAME.
  PERFORM WRITE-A-LINE1.
  MOVE PLANT-MAINT TO A-EXP,
  MOVE K1 TO A-NAME.
  PERFORM WRITE-A-LINE1.
  MOVE GRDS-MAINT TO A-EXP,
  MOVE L1 TO A-NAME.
  PERFORM WRITE-A-LINE1.
  MOVE VEH-MAINT TO A-EXP,
  MOVE M1 TO A-NAME.
  PERFORM WRITE-A-LINE1.
  MOVE EQ-MAINT TO A-EXP,
  MOVE N1 TO A-NAME.
  PERFORM WRITE-A-LINE1.
  MOVE OTHER-PLANT-OPER TO A-EXP,
  MOVE P1 TO A-NAME.
  PERFORM WRITE-A-LINE1.

CAM-MAINT2.
  MOVE CAM-MAINT-TL TO A-EXP,
  MOVE Q1 TO A-NAME.
  WRITE A-LINE FROM MISC-LABELS AFTER ADVANCING 2 LINES.
  MOVE SPACES TO DATA,
  MOVE ZEROS TO A-EXP,
  MOVE SPACES TO A-NAME,
  MOVE SPACES TO B-LINE.
  MOVE Q1Q TO P-CODE.
  MOVE HLD-CAM TO P-CAM.
  MOVE Q1 TO P-DISCRP.
  MOVE CAM-MAINT-TL TO P-AMT.
  WRITE B-LINE.
  MOVE ZEROS TO CAM-MAINT-TL.

EVENING-SAL-TOTALS.
  PERFORM HEADNG2.
  WRITE A-LINE FROM LINE-F AFTER ADVANCING 3 LINES.
  MOVE EVE-SAL TO A-EXP,
  MOVE A3 TO A-NAME.
  PERFORM WRITE-A-LINE3.
  MOVE SPACES TO B-LINE.
  ADD EVE-SAL TO COLL-TL.
  MOVE A3A TO P-CODE.
  MOVE HLD-CAM TO P-CAM.
  MOVE A3 TO P-DISCRP.
  MOVE EVE-SAL TO P-AMT.
  WRITE B-LINE.
  MOVE ZEROS TO EVE-SAL.

CAMPUS-TOTALS2.
  ADD CAM-DIV-OH, CAM-DIR-EXP, CAM-SERV-TL TO COLL-TL.
  ADD COLL-TL, ER-TOTAL GIVING COLL-GRD-TL.
  ADD COLL-GRD-TL TO CLM-COLL-GRD-TL.
  MOVE CAM-DIV-OH TO A-EXP,
  MOVE B1 TO A-NAME.
  PERFORM WRITE-A-LINE1.
  MOVE CAM-DIR-EXP TO A-EXP,
  MOVE S1 TO A-NAME.
  PERFORM WRITE-A-LINE1.
  MOVE CAM-SERV-TL TO A-EXP,
  MOVE Q1 TO A-NAME.
  PERFORM WRITE-A-LINE1.
  MOVE COLL-TL TO A-EXP,
  MOVE T1 TO A-NAME.
  PERFORM WRITE-A-LINE3.
  MOVE ER-TOTAL TO A-EXP,
  MOVE T2 TO A-NAME.
  PERFORM WRITE-A-LINE3.
  MOVE COLL-GRD-TL TO A-EXP,
  MOVE T3 TO A-NAME.
  PERFORM WRITE-A-LINE3.

MOVE-ZLRCS-SPACFS.
  MOVE SPACES TO HLD-ARLA, HLD-DIV, HLD-PROGR, HLD-CAM,
  HLD-FUND.
  MOVE ZEROS TO C-CNTR, AUX-SERV, EVE-SAL, INSTR-ADM, STU-PERS,
  LIBR-SERV, HEALTH-SERV, PLANT-OPER, GRDS-OPER,
  FIELD-OPER, POOL-OPER, VEH-OPER, TEL-OPER, UTIL-OPER,
  PLANT-MAINT, FIELD-MAINT, POOL-MAINT, GRDS-MAINT,
  VEH-MAINT, EQ-MAINT, DIV-DIR-EXP, DIV-OH, CAM-ADM-TL,
  OTHER-PLANT-OPER, CAM-HLD-TL, CAM-POOL-TL, CAM-MAINT-TL,
  CAM-CIR-EXP, CAM-DIV-OH, COLL-TL, COLL-GRD-TL, ER-TOTAL,
  LIBR-TOTAL, STOP-SD, CAM-SERV-TL, DIV-TOTAL
  GO TO CHECK-LIST.

CISTR-SUBTOTALS1.
  IF AREA-CODE IS LESS THAN C1C9, ADD AMOUNT TO SUPT-OFFICE
  GO TO MER-FILE.
  IF AREA-CODE IS EQUAL TO C1C9, GO TO ERROR-CK.

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IF AREA-CODE IS LESS THAN C230, ADD AMOUNT TO ED-SERV,
GO TO MER-FILE.
IF AREA-CODE IS LESS THAN C240, ADD AMOUNT TO VEC-ADM,
GO TO MER-FILE.
IF AREA-CODE IS LESS THAN C270, ADD AMOUNT TO COM-SERV,
GO TO MER-FILE.
IF AREA-CODE IS LESS THAN C401, GO TO ERROR-CK.
IF AREA-CODE IS EQUAL TO C404, ADD AMOUNT TO DATA-SERV,
GO TO MER-FILE.
IF AREA-CODE IS LESS THAN C410, ADD AMOUNT TO BUS-SERV,
GO TO MER-FILE.
IF AREA-CODE IS LESS THAN C590, GO TO ERROR-CK.
IF AREA-CODE IS EQUAL TO C59C, ADD AMOUNT TO PUB-TRANS,
GO TO MER-FILE.
IF AREA-CODE IS LESS THAN C800, GO TO ERROR-CK.
IF AREA-CODE IS LESS THAN C8C5, ADD AMOUNT TO FIXED-CHRG,
GO TO MER-FILE.
IF AREA-CODE IS EQUAL TO C5C8, ADD AMOUNT TO BUS-SERV,
GO TO MER-FILE.
IF AREA-CODE IS LESS THAN 1200 AND AREA-CODE IS GREATER
THAN 1100, ADD AMOUNT TO AUX-SERV, GO TO MER-FILE.
GO TO MAINT-AREA.
END-OF-AUX.
ADD SUPT-OFFICE, ED-SERV, COM-SERV, BUS-SERV, DATA-SERV,
PUB-TRANS, FIXED-CHRG, PLANT-OPER, GRDS-CPER, FIELD-CPR,
POOL-OPER, VEH-JPLK, TEL-JPER, UTIL-OPER, AUX-SERV,
UTHER-PLANT-OPER, PLANT-MAINT, FIELD-MAINT, PCCL-MAINT,
CRCS-MAINT, VEH-MAINT, EQ-MAINT, GIVING DIS-ADP.
ADD DIS-ADM TO CAM-SERV-TL.

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DISTR-TOTALS2.
MOVE SUPT-OFFICE TO A-EXP,
MOVE V1 TO A-NAME.
PERFORM WRITE-A-LINE3.
MOVE ED-SERV TO A-EXP,
MOVE V2 TO A-NAME.
PERFORM WRITE-A-LINE1.
MOVE COM-SERV TO A-EXP,
MOVE V4 TO A-NAME.
PERFORM WRITE-A-LINE1.
MOVE BUS-SERV TO A-EXP,
MOVE V5 TO A-NAME.
PERFORM WRITE-A-LINE1.
MOVE DATA-SERV TO A-EXP,
MOVE V6 TO A-NAME.
PERFORM WRITE-A-LINE1.
MOVE PUB-TRANS TO A-EXP,
MOVE V7 TO A-NAME.
PERFORM WRITE-A-LINE1.
MOVE FIXED-CHRG TO A-EXP,
MOVE V8 TO A-NAME.
PERFORM WRITE-A-LINE1.
PERFORM CAM-MAINT1,
PERFORM CAM-FLN1,
PERFORM CAM-POOL1.

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DISTR-SUBTOTALS3.
ADD DIS-ADM, VOC-ADM, GIVING ADM-TOTAL.
MOVE DIS-ADM TO A-EXP,
MOVE V12 TO A-NAME.
PERFORM WRITE-A-LINE3.
MOVE VOC-ADM TO A-EXP,
MOVE V4 TO A-NAME.
PERFORM WRITE-A-LINE3.
MOVE ADM-TOTAL TO A-EXP,
MOVE V9 TO A-NAME.
PERFORM WRITE-A-LINE3.
MOVE ER-TOTAL TO A-EXP,
MOVE T2 TO A-NAME.
PERFORM WRITE-A-LINE3.

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ADD ER-TOTAL, ADM-TOTAL GIVING DIS-GRD-TL.
MOVE DIS-GRD-TL TO A-EXP,
MOVE V10 TO A-NAME.
PERFORM WRITE-A-LINE3.
ADD DIS-GRD-TL TO CUM-COLL-GRD-TL.
MOVE CUM-COLL-GRD-TL TO A-EXP,
MOVE V11 TO A-NAME.
PERFORM WRITE-A-LINE3.

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DISTR-SUBTOTALS4.
MOVE SPACES TO B-LINE.
MOVE V12V TO P-CODE.
MOVE HLD-CAM TO P-CAM.
MOVE V12 TO P-DISCRP.
MOVE DIS-ADM TO P-AMT.
WRITE B-LINE.
MOVE SPACES TO B-LINE.
MOVE V3V TO P-CODE.
MOVE HLD-CAM TO P-CAM.
MOVE SPACES TO P-DIV, P-AREA.
MOVE V3 TO P-DISCRP.
MOVE VOC-ADM TO P-AMT.
WRITE B-LINE.

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CLOSE-FILES.
CLOSE MER-TO-DATE-FILE,
PUNCH,
PRINTER,
DISK-IN.

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DISPLAY 'NUMBER OF CARDS ', REC-CNT UPON CONSOLE.
DISPLAY 'CONTROL AMOUNT ', CONTR-TL UPON CONSOLE.
WRITE-ERROR-1.
CLOSE ERRORS-TO-DISK.
OPEN INPUT ERRORS-TO-DISK.
WRITE-ERROR-2.
READ ERRORS-TO-DISK, AT END CLOSE ERRORS-TO-DISK STOP RUN.
DISPLAY E-LINE.
GO TO WRITE-ERROR-2.
STOP RUN.
WRITE-A-LINE1.
WRITE A-LINE FROM MISC-LABELS AFTER ADVANCING 1 LINES.
MOVE SPACES TO DATA, A-NAME.
MOVE ZEROS TO A-EXP.

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WRITE-A-LINE3.
WRITE A-LINE FROM MISC-LABELS AFTER ADVANCING 3 LINES.
MOVE SPACES TO DATA, A-NAME.
MOVE ZEROS TO A-EXP.

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ERROR-CK.
MOVE FUNC-CODE TO ER-FUNC.
MOVE CAMPUS-CODE TO ER-CAM.
MOVE AREA-CODE TO ER-AREA.
MOVE AMOUNT TO ER-AMT.
MOVE ERROR-RECORD TO E-LINE.
WRITE E-LINE.
ADD AMOUNT TO ER-TOTAL.
MOVE SPACES TO ER-FUNC, ER-CAM, ER-AREA.
MOVE ZEROS TO ER-AMT.
GO TO MER-FILE.

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HEADC.
WRITE A-LINE FROM LINE-A AFTER ADVANCING 3 LINES.
MOVE SPACES TO DATA.
WRITE A-LINE FROM LINE-B AFTER ADVANCING 2 LINES.
MOVE SPACES TO DATA.
WRITE A-LINE FROM LINE-C AFTER ADVANCING 2 LINES.
MOVE SPACES TO DATA.
HEADC2.
MOVE HLD-CAM TO C-CODE.
WRITE A-LINE FROM LINE-D AFTER ADVANCING 0 LINES.

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// JOB LAS2      95LEE-STEVENS 2
// OPTICA CATAL,LISTA
ACTICA F1
ACTICA MAP
PHASE LAS2,*
// EXEC CCBGL
IDENTIFICATION DIVISION.
PROGRAM-ID.      'LAS2'.
AUTHOR.          LEE STEVENS.
INSTALLATION.    FOOTHILL COMMUNITY COLLEGE DISTRICT.
DATE-WRITTEN.    OCTOBER, 1971.
REMARKS.         THIS PROGRAM RELAPS CLASS-MASTER-FILE FOR USE
                  IN INDIRECT COST ALLOCATION PROGRAM.
ENVIRONMENT DIVISION.
CONFIGURATION SECTION.
SOURCE-COMPUTER.  IBM-360 G40.
OBJECT-COMPUTER.  IBM-360 G40.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
    SELECT CLASS-MSTR-FILE ASSIGN TO 'SYS014' UTILITY 2314.
    SELECT TIH-TO-DISK      ASSIGN TO 'SYS015' UTILITY 2314.
    SELECT PUNCH            ASSIGN TO 'SYS011' UNIT-RECORD 2540P.
    SELECT PRINTER          ASSIGN TO 'SYS012' UNIT-RECORD 1403.

DATA DIVISION.

FILE SECTION.

FC CLASS-MSTR-FILE
RECORDING MODE IS F
BLOCK CONTAINS 69 RECORDS
RECORD CONTAINS 51 CHARACTERS
LABEL RECORDS ARE STANDARD
DATA RECORD IS CLASS-RECORD.

01 CLASS-RECORD.
02 CLASS-MSTR-NBR      PICTURE X(6).
02 AREA-CODE.
03 AREA-PREFIX        PICTURE XX.
03 PRGR-CCDE          PICTURE XX.
02 DIV-CODE            PICTURE XX.
02 CAMPUS-CODE         PICTURE X.
02 TERM.
03 QUARTER            PICTURE X.
03 YEAR               PICTURE XX.
02 DAY-EVE-CCDE        PICTURE X.
02 VOC-CCDE            PICTURE X.
02 CRT-WKS             PICTURE 99.
02 HRS-PER-WK          PICTURE 99.
02 FILLER              PICTURE X.
02 NM-NBR              PICTURE X(5).
02 ASF                 PICTURE 9(5).
02 HRSXASF             PICTURE 9(7).
02 FILLER              PICTURE X.
02 INSTR-NAME          PICTURE X(10).

FC PUNCH
RECORDING MODE IS F
RECORD CONTAINS 72 CHARACTERS

LABEL RECORDS ARE OMITTED
DATA RECORD IS P-LINE.

01 P-LINE.
02 P-CODE              PICTURE XXX.
02 FILLER              PICTURE XXX.
02 P-CAM               PICTURE X.
02 FILLER              PICTURE X(5).
02 P-DIV               PICTURE XX.
02 FILLER              PICTURE X(5).
02 P-AREA              PICTURE X(4).
02 FILLER              PICTURE X(5).

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02 P-DISCRP           PICTURE X(30).
02 FILLER             PICTURE X(4).
02 P-AMT              PICTURE 9(10).

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FC TIH-TO-DISK
RECORDING MODE IS F
BLOCK CONTAINS 26 RECORDS
RECORD CONTAINS 135 CHARACTERS
LABEL RECORDS ARE STANDARD
DATA RECORD IS PRGR-HRS-CISK.

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01 PRGR-HRS-CISK.
02 D-CAM              PICTURE X.
02 D-DIV              PICTURE XX.
02 D-PRGR             PICTURE XX.
02 D-DA-HRS           PICTURE 9(10).
02 D-DV-HRS           PICTURE 9(10).
02 D-EA-HRS           PICTURE 9(10).
02 D-EV-HRS           PICTURE 9(10).
02 D-DA-HASF          PICTURE 9(10).
02 D-CV-HASF          PICTURE 9(10).
02 D-EA-HASF          PICTURE 9(10).
02 D-EV-HASF          PICTURE 9(10).
02 D-PRGR-TIH         PICTURE 9(10).
02 D-PRGR-HASF        PICTURE 9(10).
02 D-PE-TIH           PICTURE 9(10).
02 D-V-TIH            PICTURE 9(10).
02 D-E-TIH            PICTURE 9(10).

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FC PRINTER
RECORDING MODE IS F
RECORD CONTAINS 133 CHARACTERS
LABEL RECORDS ARE OMITTED
DATA RECORD IS A-LINE.

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01 A-LINE.
02 DATA              PICTURE X(133).

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WORKING-STORAGE SECTION.

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77 CHR                PICTURE XXX    VALUE 'CHR'.
77 DHR                PICTURE XXX    VALUE 'DHR'.
77 HSF                PICTURE XXX    VALUE 'HSF'.
77 IDH                PICTURE XXX    VALUE 'IDH'.
77 CM4                PICTURE X      VALUE '4'.
77 VHR                PICTURE XXX    VALUE 'VHR'.
77 V-CODE             PICTURE X      VALUE 'V'.
77 D-CODE             PICTURE X      VALUE 'D'.
77 E-CODE             PICTURE X      VALUE 'E'.
77 DE                 PICTURE X(20)  VALUE 'DIVISION CODE IN ERR'.
77 DZ                 PICTURE X(20)  VALUE 'LIBRARY TECH PROGRAM'.
77 D1                 PICTURE X(19)  VALUE 'BIOLOGICAL SCIENCES'.
77 D2                 PICTURE X(15)  VALUE 'BUSINESS AND OP'.
77 D3                 PICTURE X(11)  VALUE 'ENGINEERING'.
77 D4                 PICTURE X(9)   VALUE 'FINE ARTS'.
77 D5                 PICTURE X(13)  VALUE 'LANGUAGE ARTS'.
77 D6                 PICTURE X(14)  VALUE 'ETHNIC STUDIES'.
77 D7                 PICTURE X(18)  VALUE 'PHYSICAL EDUCATION'.
77 D8                 PICTURE X(16)  VALUE 'PHYSICAL SCIENCE'.
77 D9                 PICTURE X(14)  VALUE 'SOCIAL SCIENCE'.
77 HLD-CAM            PICTURE X      VALUE SPACES.
77 CLASS-TIH          PICTURE 9(10)  VALUE ZERC.
77 PE-TIH             PICTURE 9(10)  VALUE ZERC.
77 DIST-TIH-DA        PICTURE 9(10)  VALUE ZERC.
77 DIST-TIH-DV        PICTURE 9(10)  VALUE ZERC.
77 DIST-TIH-EA        PICTURE 9(10)  VALUE ZERC.
77 DIST-TIH-EV        PICTURE 9(10)  VALUE ZERC.
77 DIST-HASF-DA        PICTURE 9(10)  VALUE ZERC.
77 DIST-HASF-DV        PICTURE 9(10)  VALUE ZERC.
77 DIST-HASF-EA        PICTURE 9(10)  VALUE ZERC.
77 DIST-HASF-EV        PICTURE 9(10)  VALUE ZERC.
77 DIST-TIH-AHMS      PICTURE 9(10)  VALUE ZERC.

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77 DIST-TIH-VHRS PICTURE 9(10) VALUE ZERC.
77 DIST-TIH-DHRS PICTURE 9(10) VALUE ZERC.
77 DIST-TIH-EHRS PICTURE 9(10) VALUE ZERC.
77 DIV-NAME PICTURE X(15) VALUE 'DIVISION TOTALS'.
77 CAM-NAME PICTURE X(13) VALUE 'CAMPLS TOTALS'.
77 DIST-VCC-DP PICTURE X(16) VALUE 'DISTRICT VCC TIH'.
77 DIST-DISCRP PICTURE X(12) VALUE 'DISTRICT TIH'.
77 ASF-DISCRP PICTURE X(20) VALUE 'CAMPLS TOTAL HRSASF'.
77 EVE-DISCRP PICTURE X(11) VALUE 'EVENING TIH'.
77 ALL-TIH-DIST PICTURE 9(10) VALUE ZERC.
77 OIV-DISCRP PICTURE X(12) VALUE 'DIVISION TIH'.
77 CAM-DISCRP PICTURE X(10) VALUE 'CAMPUS TIH'.
77 PE-DISCRP PICTURE X(6) VALUE 'PE TIH'.

```

```

01 AREA-HLO.
02 HLO-DIV PICTURE XX VALUE SPACES.
02 HLO-PRCGR PICTURE XX VALUE SPACES.

```

```

01 PRINT-DIV-SLP.
02 FILLER PICTURE X(5) VALUE SPACES.
02 PRNT-TITLE PICTURE X(20) VALUE SPACES.
02 FILLER PICTURE X(5) VALUE SPACES.
02 PRNT-SLM-AHRS PICTURE Z(10).
02 FILLER PICTURE X(5) VALUE SPACES.
02 PRNT-SLM-VHRS PICTURE Z(10).
02 FILLER PICTURE X(5) VALUE SPACES.
02 PRNT-SLM-LHRS PICTURE Z(10).
02 FILLER PICTURE X(5) VALUE SPACES.
02 PRNT-SLM-EHRS PICTURE Z(10).
02 FILLER PICTURE X(5) VALUE SPACES.
02 PRNT-SLM-THRS PICTURE Z(10).
02 FILLER PICTURE X(33) VALUE SPACES.

```

```

C1 PROGR-STORAGE.
02 ALL-TIH-PRCGR PICTURE 9(10) VALUE ZERC.
02 ALL-HASF-PRCGR PICTURE 9(10) VALUE ZERC.
02 ALL-DAY-HRS-PRG PICTURE 9(10) VALUE ZERC.
02 ALL-EVE-HRS-PRG PICTURE 9(10) VALUE ZERC.
02 PROGR-TIH-OA PICTURE 9(10) VALUE ZERC.
02 PROGR-TIH-CV PICTURE 9(10) VALUE ZERC.
02 PROGR-TIH-EA PICTURE 9(10) VALUE ZERC.
02 PKGGR-TIH-EV PICTURE 9(10) VALUE ZERC.
02 PROGR-HASF-CA PICTURE 9(10) VALUE ZERC.
02 PROGR-HASF-CV PICTURE 9(10) VALUE ZERC.
02 PROGR-HASF-EA PICTURE 9(10) VALUE ZERC.
02 PROGR-HASF-EV PICTURE 9(10) VALUE ZERC.
02 PROGR-ACC-HRS PICTURE 9(10) VALUE ZERC.
02 PROGR-VCC-HRS PICTURE 9(10) VALUE ZERC.

```

```

01 DIV-STORAGE.
02 DIV-TIH-AHRS PICTURE 9(10) VALUE ZERC.
02 DIV-TIH-VHRS PICTURE 9(10) VALUE ZERC.
02 DIV-TIH-DHRS PICTURE 9(10) VALUE ZERC.
02 DIV-TIH-EHRS PICTURE 9(10) VALUE ZERC.
02 DIV-TIH-CA PICTURE 9(10) VALUE ZERC.
02 DIV-TIH-CV PICTURE 9(10) VALUE ZERC.
02 DIV-TIH-EA PICTURE 9(10) VALUE ZERC.
02 DIV-TIH-EV PICTURE 9(10) VALUE ZERC.
02 ALL-TIH-CIV PICTURE 9(10) VALUE ZERC.
02 OIV-HASF-CV PICTURE 9(10) VALUE ZERC.
02 OIV-HASF-CA PICTURE 9(10) VALUE ZERC.
02 OIV-HASF-EV PICTURE 9(10) VALUE ZERC.
02 OIV-HASF-EA PICTURE 9(10) VALUE ZERC.

```

```

01 CAMPLS-STORAGE.
02 CAM-TIH-AHRS PICTURE 9(10) VALUE ZERC.
02 CAM-TIH-VHRS PICTURE 9(10) VALUE ZERC.
02 CAM-TIH-DHRS PICTURE 9(10) VALUE ZERC.
02 CAM-TIH-EHRS PICTURE 9(10) VALUE ZERC.
02 CAM-TIH-OA PICTURE 9(10) VALUE ZERC.
02 CAM-TIH-CV PICTURE 9(10) VALUE ZERC.
02 CAM-TIH-EA PICTURE 9(10) VALUE ZERC.

```

```

02 CAM-TIH-EV PICTURE 9(10) VALUE ZERC.
02 ALL-TIH-CAM PICTURE 9(10) VALUE ZERC.
02 ALL-HASF-CAM PICTURE 9(10) VALUE ZERC.
02 CAM-HASF-CA PICTURE 9(10) VALUE ZERC.
02 CAM-HASF-CV PICTURE 9(10) VALUE ZERC.
02 CAM-HASF-EA PICTURE 9(10) VALUE ZERC.
02 CAM-HASF-EV PICTURE 9(10) VALUE ZERC.

```

```

C1 DIV-LABEL.
02 FILLER PICTURE X(5) VALUE SPACES.
02 D-NAME PICTURE X(20) VALUE SPACES.
02 FILLER PICTURE X(6) VALUE SPACES.
02 FILLER PICTURE X(10) VALUE 'ACAD HRS'.
02 FILLER PICTURE X(6) VALUE SPACES.
02 FILLER PICTURE X(10) VALUE 'VCC HRS'.
02 FILLER PICTURE X(5) VALUE SPACES.
02 FILLER PICTURE X(10) VALUE 'DAY HRS'.
02 FILLER PICTURE X(5) VALUE SPACES.
02 FILLER PICTURE X(10) VALUE 'EVE HRS'.
02 FILLER PICTURE X(3) VALUE SPACES.
02 FILLER PICTURE X(10) VALUE 'TOTAL HRS'.
02 FILLER PICTURE X(13) VALUE SPACES.

```

```

C1 PRINT-PRCGR.
02 FILLER PICTURE X(10) VALUE SPACES.
02 AREA-PRINT PICTURE X(4) VALUE SPACES.
02 FILLER PICTURE X(16) VALUE SPACES.
02 PRNT-ACAD-HRS PICTURE Z(10).
02 FILLER PICTURE X(5) VALUE SPACES.
02 PRNT-VCC-HRS PICTURE Z(10).
02 FILLER PICTURE X(5) VALUE SPACES.
02 PRNT-DAY-HRS PICTURE Z(10).
02 FILLER PICTURE X(5) VALUE SPACES.
02 PRNT-EVE-HRS PICTURE Z(10).
02 FILLER PICTURE X(5) VALUE SPACES.
02 PRNT-TOTAL-HRS PICTURE Z(10).
02 FILLER PICTURE X(33) VALUE SPACES.

```

```

C1 LINE-A.
02 FILLER PICTURE X(30) VALUE SPACES.
02 FILLER PICTURE X(35) VALUE 'FOOTHILL COMMUNITY COLLEGE 0001
'DISTRICT'.
02 FILLER PICTURE X(68) VALUE SPACES.

```

```

01 LINE-B.
02 FILLER PICTURE X(36) VALUE SPACES.
02 FILLER PICTURE X(24) VALUE 'INDIRECT CCST ALLOCATION'.
02 FILLER PICTURE X(73) VALUE SPACES.

```

```

C1 LINE-C.
02 FILLER PICTURE X(36) VALUE SPACES.
02 FILLER PICTURE X(25) VALUE 'CLASS MASTER FILE'.
02 FILLER PICTURE X(72) VALUE SPACES.

```

```

C1 CAM-LABEL.
02 FILLER PICTURE X(20) VALUE SPACES.
02 FILLER PICTURE X(7) VALUE 'CAMPUS'.
02 C-CODE PICTURE X VALUE SPACES.
02 FILLER PICTURE X(105) VALUE SPACES.

```

PROCEDURE DIVISION.

START-PROCESSING.

```

OPEN INPUT CLASS-MSTR-FILE.
OPEN OUTPUT TIH-TC-DISK, PUNCH, PRINTER.
PERFORM HEADING.

```

CLASS-FILE1.

```

READ CLASS-MSTR-FILE, AT END, GO TO DISTRICT-TOTALS.
IF CAMPUS-CODE IS EQUAL TO 'F', MOVE 1 TO CAMPUS-CCDE.
IF CAMPUS-CCDE IS EQUAL TO 'D', MOVE 2 TO CAMPUS-CCDE.

```

CLASS-FILE2.
 IF HLD-CAM EQUAL TO SPACES, MOVE CAMPUS-CODE TO HLC-CAM,
 PERFORM CAMPUS-LABEL.
 IF HLD-DIV EQUAL TO SPACES, MOVE DIV-CCDE TO HLC-DIV,
 PERFORM DIVISION-LABEL.
 IF HLD-PRGR EQUAL TO SPACES, MOVE PRGR-CCDE TO HLD-PRGR,
 GO TO HLD-CCDE-TEST.

HLD-CCDE-TEST.
 IF CAMPUS-CCDE IS NOT EQUAL TO HLD-CAM, GO TO CAMPUS-TOTALS1.
 IF DIV-CCDE IS NOT EQUAL TO HLC-DIV, GO TO DIV-TOTALS1.
 IF PRGR-CCDE IS NOT EQUAL TO HLD-PRGR, GO TO PRGR-TOTALS1.

TOTAL-INSTR-HRS.
 MULTIPLY HRS-PER-WK BY CNT-WKS GIVING CLASS-TIH.
 ADD CLASS-TIH TO ALL-TIH-PRGR.
 ADD HRSXASF TO ALL-HASF-PRGR.
 ADD HRSXASF TO ALL-HASF-CAM.

DAY-EVE-SORT.
 IF DAY-EVE-CCDE IS EQUAL TO C-CCDE,
 ADD CLASS-TIH TO ALL-DAY-HRS-PRG, GO TO DAY-VCC-SORT.
 IF DAY-EVE-CCDE IS EQUAL TO E-CCDE,
 ADD CLASS-TIH TO ALL-EVE-HRS-PRG, GO TO EVE-VCC-SORT.

DAY-VCC-SORT.
 IF VCC-CCDE IS EQUAL TO SPACE,
 ADD CLASS-TIH TO PRGR-TIH-CA,
 ADD CLASS-TIH TO DIV-TIH-DA,
 ADD CLASS-TIH TO CAM-TIH-DA,
 ADD CLASS-TIH TO DIST-TIH-DA,
 ADD HRSXASF TO PRGR-HASF-CA,
 ADD HRSXASF TO DIV-HASF-DA,
 ADD HRSXASF TO CAM-HASF-DA,
 ADD HRSXASF TO DIST-HASF-DA,
 GO TO PE-SORT.

ADD CLASS-TIH TO PRGR-TIH-CV,
 ADD CLASS-TIH TO DIV-TIH-CV,
 ADD CLASS-TIH TO CAM-TIH-CV,
 ADD CLASS-TIH TO DIST-TIH-CV,
 ADD HRSXASF TO PRGR-HASF-CV,
 ADD HRSXASF TO DIV-HASF-DV,
 ADD HRSXASF TO CAM-HASF-DV,
 ADD HRSXASF TO DIST-HASF-DV,
 GO TO PE-SORT.

EVE-VCC-SORT.
 IF VCC-CCDE IS EQUAL TO SPACE,
 ADD CLASS-TIH TO PRGR-TIH-EA,
 ADD CLASS-TIH TO DIV-TIH-EA,
 ADD CLASS-TIH TO CAM-TIH-EA,
 ADD CLASS-TIH TO DIST-TIH-EA,
 ADD HRSXASF TO PRGR-HASF-EA,
 ADD HRSXASF TO DIV-HASF-EA,
 ADD HRSXASF TO CAM-HASF-EA,
 ADD HRSXASF TO DIST-HASF-EA,
 GO TO PE-SORT.

ADD CLASS-TIH TO PRGR-TIH-EV,
 ADD CLASS-TIH TO DIV-TIH-EV,
 ADD CLASS-TIH TO CAM-TIH-EV,
 ADD CLASS-TIH TO DIST-TIH-EV,
 ADD HRSXASF TO PRGR-HASF-EV,
 ADD HRSXASF TO DIV-HASF-EV,
 ADD HRSXASF TO CAM-HASF-EV,
 ADD HRSXASF TO DIST-HASF-EV,
 GO TO PE-SORT.

PE-SORT.
 IF AREA-CODE IS EQUAL TO 2711, ADD CLASS-TIH TO PE-TIH, ELSE
 IF AREA-CODE IS EQUAL TO 2721, ADD CLASS-TIH TO PE-TIH, ELSE
 IF AREA-CODE IS EQUAL TO 2722, ADD CLASS-TIH TO PE-TIH, ELSE
 IF AREA-CODE IS EQUAL TO 2723, ADD CLASS-TIH TO PE-TIH, ELSE
 IF AREA-CODE IS EQUAL TO 2724, ADD CLASS-TIH TO PE-TIH, ELSE
 IF AREA-CODE IS EQUAL TO 2729, ADD CLASS-TIH TO PE-TIH,
 GO TO CLASS-FILE1.

CAMPUS-LABEL.
 MOVE CAMPUS-CCDE TO C-CCDE.
 WRITE A-LINE FROM CAM-LABEL AFTER ADVANCING 0 LINES.
 MOVE SPACES TO DATA, C-CCDE.

DIVISION-LABEL.
 IF DIV-CCDE IS EQUAL TO 20, MOVE DZ TO D-NAME, ELSE
 IF DIV-CCDE IS EQUAL TO 21, MOVE C1 TO D-NAME, ELSE
 IF DIV-CCDE IS EQUAL TO 22, MOVE C2 TO D-NAME, ELSE
 IF DIV-CCDE IS EQUAL TO 23, MOVE C3 TO D-NAME, ELSE
 IF DIV-CCDE IS EQUAL TO 24, MOVE C4 TO D-NAME, ELSE
 IF DIV-CCDE IS EQUAL TO 25, MOVE C5 TO D-NAME, ELSE
 IF DIV-CCDE IS EQUAL TO 26, MOVE C6 TO D-NAME, ELSE
 IF DIV-CCDE IS EQUAL TO 27, MOVE C7 TO D-NAME, ELSE
 IF DIV-CCDE IS EQUAL TO 28, MOVE C8 TO D-NAME, ELSE
 IF DIV-CCDE IS EQUAL TO 29, MOVE C9 TO D-NAME, ELSE
 DISPLAY "BAD DATA", DIV-CCDE UPON CONSOLE, MOVE DE TO D-NAME.
 PERFORM CAMPUS-LABEL.
 WRITE A-LINE FROM DIV-LABEL AFTER ADVANCING 2 LINES.
 MOVE SPACES TO DATA, D-NAME.

PRGR-TOTALS1.
 ADD PRGR-TIH-CA, PRGR-TIH-EA GIVING PRGR-ACD-HRS.
 ADD PRGR-TIH-CV, PRGR-TIH-EV GIVING PRGR-VCC-HRS.
 MOVE HLD-CAM TO O-CAM,
 MOVE HLD-DIV TO O-DIV,
 MOVE HLD-PRGR TO O-PRGR,
 MOVE PRGR-TIH-CA TO O-CA-HRS,
 MOVE PRGR-TIH-CV TO O-CV-HRS,
 MOVE PRGR-TIH-EA TO O-EA-HRS,
 MOVE PRGR-TIH-EV TO O-EV-HRS,
 MOVE PRGR-HASF-CA TO O-CA-HASF,
 MOVE PRGR-HASF-DV TO O-CV-HASF,
 MOVE PRGR-HASF-EA TO O-EA-HASF,
 MOVE PRGR-HASF-EV TO O-EV-HASF,
 MOVE ALL-TIH-PRGR TO O-PRGR-TIH,
 MOVE ALL-HASF-PRGR TO O-PRGR-HASF,
 MOVE PE-TIH TO O-PE-TIH,
 MOVE PRGR-VCC-HRS TO O-V-TIH,
 MOVE ALL-EVE-HRS-PRG TO O-E-TIH.

WRITE PRGR-HRS-DISK.
 ADD ALL-TIH-PRGR TO ALL-TIH-DIV.
 ADD ALL-TIH-PRGR TO ALL-TIH-CAM.
 ADD ALL-TIH-PRGR TO ALL-TIH-DIST.
 MOVE AREA-HLD TO AREA-PRINT,
 MOVE ALL-DAY-HRS-PRG TO PRNT-DAY-HRS,
 MOVE PRGR-ACD-HRS TO PRNT-ACAD-HRS,
 MOVE PRGR-VCC-HRS TO PRNT-VCC-HRS,
 MOVE ALL-EVE-HRS-PRG TO PRNT-EVE-HRS,
 MOVE ALL-TIH-PRGR TO PRNT-TOTAL-HRS.
 WRITE A-LINE FROM PRINT-PRGR AFTER ADVANCING 1 LINES.
 MOVE SPACES TO DATA, AREA-PRINT, HLD-PRGR.
 MOVE ZEROS TO CLASS-TIH,
 PRNT-ACAD-HRS,
 PRNT-VCC-HRS,
 PRNT-DAY-HRS,
 PRNT-EVE-HRS,
 PRNT-TOTAL-HRS,
 PRGR-HRS-DISK,
 PRGR-STORAGE.

PRCGR-TOTALS2.
GC TO CLASS-FILE2.

DIV-TOTALS1.

```
PERFORM PRCGR-TOTALS1.
MOVE DIV-NAME TO PRNT-TITLE.
ADD DIV-TIH-DA, DIV-TIH-EA GIVING DIV-TIH-AHRS,
ADD DIV-TIH-DV, DIV-TIH-EV GIVING DIV-TIH-VHRS,
ADD DIV-TIH-CA, DIV-TIH-CV GIVING DIV-TIH-CHRS,
ADD DIV-TIH-EV, DIV-TIH-EA GIVING DIV-TIH-EHRS.
MOVE DIV-TIH-AHRS TO PRNT-SUM-AHRS,
MOVE DIV-TIH-VHRS TO PRNT-SUM-VHRS,
MOVE DIV-TIH-DHRS TO PRNT-SUM-DHRS,
MOVE DIV-TIH-EHRS TO PRNT-SUM-EHRS,
MOVE ALL-TIH-DIV TO PRNT-SUM-THRS.
WRITE A-LINE FROM PRNT-DIV-SUM AFTER ADVANCING 2 LINES.
MOVE SPACES TO DATA, PRNT-TITLE.
IF HLD-DIV IS NOT EQUAL TO 27, GC TO PUNCH-DIV-HRS, ELSE
MOVE SPACES TO P-LINE,
MOVE '27P' TO P-CODE,
MOVE HLD-CAM TO P-CAM,
MOVE HLD-DIV TO P-DIV,
MOVE PE-DISCRP TO P-DISCRP,
MOVE PE-TIH TO P-AMT.
WRITE P-LINE.
MOVE ZEROS TO P-AMT, PE-TIH.
```

PUNCH-DIV-HRS.

```
MOVE SPACES TO P-LINE.
MOVE TOH TO P-CODE,
MOVE HLD-CAM TO P-CAM,
MOVE HLD-DIV TO P-DIV,
MOVE DIV-DISCRP TO P-DISCRP,
MOVE ALL-TIH-DIV TO P-AMT.
WRITE P-LINE.
MOVE SPACES TO HLD-DIV, HLD-PRCGR.
MOVE ZEROS TO P-AMT, DIV-STCRGE,
PRNT-SUM-AHRS, PRNT-SUM-CHRS,
PRNT-SUM-VHRS, PRNT-SUM-EHRS.
```

DIV-TOTALS2.

GC TO CLASS-FILE2.

CAMPUS-TOTALS1.

```
PERFORM DIV-TOTALS1 THRU PUNCH-DIV-HRS.
ADD CAM-TIH-DA, CAM-TIH-EA GIVING CAM-TIH-AHRS,
ADD CAM-TIH-DV, CAM-TIH-EV GIVING CAM-TIH-VHRS,
ADD CAM-TIH-CA, CAM-TIH-CV GIVING CAM-TIH-CHRS,
ADD CAM-TIH-EA, CAM-TIH-EV GIVING CAM-TIH-EHRS.
MOVE CAM-NAME TO PRNT-TITLE,
MOVE CAM-TIH-AHRS TO PRNT-SUM-AHRS,
MOVE CAM-TIH-VHRS TO PRNT-SUM-VHRS,
MOVE CAM-TIH-DHRS TO PRNT-SUM-DHRS,
MOVE CAM-TIH-EHRS TO PRNT-SUM-EHRS,
MOVE ALL-TIH-CAM TO PRNT-SUM-THRS.
WRITE A-LINE FROM PRNT-DIV-SUM AFTER ADVANCING 3 LINES.
MOVE SPACES TO DATA, PRNT-TITLE.
```

PUNCH-CAM-TOTALS.

```
MOVE SPACES TO P-LINE.
MOVE CHR TO P-CODE,
MOVE HLD-CAM TO P-CAM,
MOVE CAM-DISCRP TO P-DISCRP,
MOVE ALL-TIH-CAM TO P-AMT.
WRITE P-LINE.
MOVE SPACES TO P-LINE.
MOVE VHR TO P-CODE,
MOVE CAM-TIH-EHRS TO P-AMT,
MOVE EVE-DISCRP TO P-DISCRP.
WRITE P-LINE.
MOVE SPACES TO P-LINE.
MOVE HSF TO P-CODE.
```

```
MOVE ASF-DISCRP TO P-DISCRP,
MOVE ALL-HASF-CAM TO P-AMT.
WRITE P-LINE.
MOVE SPACES TO HLD-CAM, HLD-CIV, HLD-PRCGR.
MOVE ZEROS TO P-AMT,
CAMPUS-STCRGE,
PRNT-SUM-AHRS,
PRNT-SUM-VHRS,
PRNT-SUM-CHRS,
PRNT-SUM-EHRS,
PRNT-SUM-THRS.
```

CAMPUS-TOTALS2.

GC TO CLASS-FILE1.

DISTRICT-TOTALS.

```
PERFORM CAMPUS-TOTALS1.
PERFORM PUNCH-CAM-TOTALS.
ADD DIST-TIH-DA, DIST-TIH-EA GIVING DIST-TIH-AHRS,
ADD DIST-TIH-DV, DIST-TIH-EV GIVING DIST-TIH-VHRS,
ADD DIST-TIH-CA, DIST-TIH-CV GIVING DIST-TIH-CHRS,
ADD DIST-TIH-EA, DIST-TIH-EV GIVING DIST-TIH-EHRS.
MOVE DIST-DISCRP TO PRNT-TITLE,
MOVE DIST-TIH-AHRS TO PRNT-SUM-AHRS,
MOVE DIST-TIH-VHRS TO PRNT-SUM-VHRS,
MOVE DIST-TIH-DHRS TO PRNT-SUM-DHRS,
MOVE DIST-TIH-EHRS TO PRNT-SUM-EHRS,
MOVE ALL-TIH-DIST TO PRNT-SUM-THRS.
WRITE A-LINE FROM PRNT-DIV-SUM AFTER ADVANCING 3 LINES.
MOVE SPACES TO P-LINE.
MOVE DHR TO P-CODE,
MOVE CM4 TO P-CAM,
MOVE DIST-DISCRP TO P-DISCRP,
MOVE ALL-TIH-DIST TO P-AMT.
WRITE P-LINE.
MOVE SPACES TO P-LINE.
MOVE VHR TO P-CODE,
MOVE DIST-VOC-OP TO P-DISCRP,
MOVE DIST-TIH-VHRS TO P-AMT.
WRITE P-LINE.
```

CLOSE-FILES.

CLOSE CLASS-MSTR-FILE, PRINTER, PUNCH, TIH-TO-DISK.
STOP RUN.

HEADING.

```
WRITE A-LINE FROM LINE-A AFTER ADVANCING 0 LINES.
MOVE SPACES TO DATA.
WRITE A-LINE FROM LINE-B AFTER ADVANCING 2 LINES.
MOVE SPACES TO DATA.
WRITE A-LINE FROM LINE-C AFTER ADVANCING 2 LINES.
MOVE SPACES TO DATA.
```

```
/*
// EXEC LINKEDT
```

CHAPTER 5

SIMULATION PROGRAM OUTPUT

5.1 Basic Data Output

The data output which follows is the result of computer program "LAS3". That is, it is the simulation model output of the Instructional Program Total Cost Report. The format is the same as that developed in Section 3.1. The simulation data is for the fiscal year 1969-70.

The program summarizes each instructional program's costs and, in addition, gives instructional division totals, campus totals, as well as college district totals. The total fiscal year instructional hours are shown for each program including the computation of a cost-per-instructional hour.

At the end of the data report for each campus, a listing of the basic factors used in allocating the indirect expenditures is given. The factor for maintenance is a result of the application of the formula described in Section 3.2.

The simulation input data did not include a breakdown of instructor's salaries by instructional program within an instructional division. Therefore, the program computes for each division a cost per instructional hour. The program then uses this rate to allocate to each instructional program within the division its share of salary

costs based on the number of instructional hours each particular program generated. The program then reminds the reader through the footnote that salaries are included in the Division Overhead allocation.

The computer model is written in such a manner, however, that if the basic salary input data is already allocated to instructional programs, then the salary expenditure data would be included in the program output line entitled Program Direct Costs. This flexibility is achieved without changing the basic logic of the simulation model program.

The input and output data files used in "LAS1" and "LAS2" are found in Appendix IV. All of the program reports are paged in such a manner that each instructional program report appears on a separate page. This allows for convenient distribution to the appropriate faculty members. The following pages are illustrative of the allocation report. The complete District instructional program report is available by contacting the Data Services Department, Foothill Community College District, Los Altos, California.

FOOTHILL COMMUNITY COLLEGE DISTRICT
TOTAL PROGRAM COSTS
DATA IS FOR FISCAL YEAR 69-70

CAMPLS-1

PROGRAM 2113

| | |
|-----------------------|----------|
| DIVISION OVERHEAD* | 20808.00 |
| CAMPUS ADM OVERHEAD | 6852.00 |
| DISTRICT OVERHEAD | 4572.00 |
| VCC EDUC ADM OVERHEAD | 1116.00 |
| FIELD MAINTENANCE | 0.00 |
| PCOL MAINTENANCE | 0.00 |
| CAMPUS MAINTENANCE | 2432.62 |
| SUBTOTAL - INDIRECT | 35780.62 |
| EVENING SALARIES | 615.60 |
| PROGRAM DIRECT COST | 2047.75 |
| PROGRAM TOTAL COSTS | 38443.97 |
| TOTAL INSTR HOURS | 1200 |
| COST PER INSTR HOUR | 32.03 |

*SALARIES ARE INCLUDED IN DIVISION OVERHEAD.

BIOLOGICAL SCIENCES

DIVISION SUMMARY

| | |
|-----------------------|-----------|
| DIVISION OVERHEAD* | 275289.84 |
| CAMPUS ADM OVERHEAD | 90651.96 |
| DISTRICT OVERHEAD | 60487.56 |
| VCC EDUC ADM OVERHEAD | 7309.80 |
| FIELD MAINTENANCE | 0.00 |
| PCOL MAINTENANCE | 0.00 |
| CAMPUS MAINTENANCE | 21651.58 |
| SUBTOTAL - INDIRECT | 455350.74 |
| EVENING SALARIES | 20930.40 |
| PROGRAM DIRECT COST | 47908.85 |
| PROGRAM TOTAL COSTS | 524229.99 |
| TOTAL INSTR HOURS | 15876 |
| COST PER INSTR HOUR | 33.02 |

*SALARIES ARE INCLUDED IN DIVISION OVERHEAD.

CAMPLS-1

PROGRAM 2411

| | |
|-----------------------|-----------|
| DIVISION OVERHEAD* | 124701.12 |
| CAMPUS ADM OVERHEAD | 83868.48 |
| DISTRICT OVERHEAD | 55961.28 |
| VCC EDUC ADM OVERHEAD | 0.00 |
| FIELD MAINTENANCE | 0.00 |
| PCOL MAINTENANCE | 0.00 |
| CAMPUS MAINTENANCE | 30108.29 |
| SUBTOTAL - INDIRECT | 294639.17 |
| EVENING SALARIES | 33057.72 |
| PROGRAM DIRECT COST | 3768.64 |
| PROGRAM TOTAL COSTS | 331465.53 |
| TOTAL INSTR HOURS | 14688 |
| COST PER INSTR HOUR | 22.56 |

*SALARIES ARE INCLUDED IN DIVISION OVERHEAD.

CAMPLS-1

PROGRAM 2711

| | |
|-----------------------|----------|
| DIVISION OVERHEAD* | 8049.24 |
| CAMPUS ADM OVERHEAD | 1987.08 |
| DISTRICT OVERHEAD | 1325.88 |
| VCC EDUC ADM OVERHEAD | 323.64 |
| FIELD MAINTENANCE | 10540.92 |
| PCOL MAINTENANCE | 0.00 |
| CAMPUS MAINTENANCE | 463.43 |
| SUBTOTAL - INDIRECT | 22690.19 |
| EVENING SALARIES | 861.84 |
| PROGRAM DIRECT COST | 0.00 |
| PROGRAM TOTAL COSTS | 23552.03 |
| TOTAL INSTR HOURS | 348 |
| COST PER INSTR HOUR | 67.67 |

*SALARIES ARE INCLUDED IN DIVISION OVERHEAD.

CAMPLS-2

PROGRAM 2725

| | |
|-----------------------|----------|
| DIVISION OVERHEAD* | 0.00 |
| CAMPUS ADM OVERHEAD | 0.00 |
| DISTRICT OVERHEAD | 0.00 |
| VOC EDUC ADM OVERHEAD | 0.00 |
| FIELD MAINTENANCE | 0.00 |
| POOL MAINTENANCE | 16434.15 |
| CAMPUS MAINTENANCE | 0.00 |
| SUBTOTAL - INDIRECT | 16434.15 |
| EVENING SALARIES | 0.00 |
| PROGRAM DIRECT COST | 750.98 |
| PROGRAM TOTAL COSTS | 17185.13 |
| TOTAL INSTR HOURS | 00 |
| COST PER INSTR HOUR | 0.00 |

*SALARIES ARE INCLUDED IN DIVISION OVERHEAD.

CAMPLS SUMMARY
CAMPLS-1

| | |
|-----------------------|------------|
| DIVISION OVERHEAD* | 2182941.60 |
| CAMPUS ADM OVERHEAD | 1001830.92 |
| DISTRICT OVERHEAD | 668472.12 |
| VOC EDUC ADM OVERHEAD | 29283.84 |
| FIELD MAINTENANCE | 10540.92 |
| POOL MAINTENANCE | 16481.96 |
| CAMPUS MAINTENANCE | 304350.79 |
| SUBTOTAL - INDIRECT | 4213902.15 |
| EVENING SALARIES | 418423.32 |
| PROGRAM DIRECT COST | 281200.53 |
| PROGRAM TOTAL COSTS | 4913526.00 |
| TOTAL INSTR HOURS | 175452 |
| COST PER INSTR HOUR | 28.00 |

*SALARIES ARE INCLUDED IN DIVISION OVERHEAD.

CAMPLS SUMMARY
CAMPLS-2

| | |
|-----------------------|------------|
| DIVISION OVERHEAD* | 2049292.32 |
| CAMPUS ADM OVERHEAD | 1050657.48 |
| DISTRICT OVERHEAD | 644606.28 |
| VOC EDUC ADM OVERHEAD | 36247.68 |
| FIELD MAINTENANCE | 7633.08 |
| POOL MAINTENANCE | 16434.15 |
| CAMPUS MAINTENANCE | 373825.80 |
| SUBTOTAL - INDIRECT | 4178696.79 |
| EVENING SALARIES | 417352.20 |
| PROGRAM DIRECT COST | 281837.56 |
| PROGRAM TOTAL COSTS | 4877886.55 |
| TOTAL INSTR HOURS | 169188 |
| COST PER INSTR HOUR | 28.83 |

*SALARIES ARE INCLUDED IN DIVISION OVERHEAD.

DISTRICT SUMMARY

| | |
|-----------------------|------------|
| DIVISION OVERHEAD* | 4232233.92 |
| CAMPUS ADM OVERHEAD | 2052488.40 |
| DISTRICT OVERHEAD | 1313078.40 |
| VOC EDUC ADM OVERHEAD | 65531.52 |
| FIELD MAINTENANCE | 18174.00 |
| POOL MAINTENANCE | 32916.11 |
| CAMPUS MAINTENANCE | 678176.59 |
| SUBTOTAL - INDIRECT | 8392598.94 |
| EVENING SALARIES | 835775.52 |
| PROGRAM DIRECT COST | 563038.09 |
| PROGRAM TOTAL COSTS | 9791412.55 |
| TOTAL INSTR HOURS | 344640 |
| COST PER INSTR HOUR | 28.41 |

*SALARIES ARE INCLUDED IN DIVISION OVERHEAD.

| | |
|-----------------|---------|
| DIST-ADM CPHR | 3.81 |
| VOC-ADM CPHR | 0.93 |
| FM-ADM CPHR | 5.71 |
| CA-ADM CPHR | 6.21 |
| FM MAINT FACTOR | 0.00169 |
| CA MAINT FACTOR | 0.00201 |
| FM EVE-SAL CPHR | 5.13 |
| CA EVE-SAL CPHR | 5.05 |

5.2 Subsidiary Data Output

The two preliminary computer programs "LAS1" and "LAS2" entitled MER Data Summary Report and Class Master File Data Summary Report, respectively, provide the appropriate input data for the simulation model program "LAS3" described in Sections 4.2 and 5.1. The output data generated by these two programs includes both computer card files as well as disk data files.¹⁵

Data being handled by these two programs provides other useful information in addition to creating the data files described in the previous paragraph. This data is illustrated in the data printouts found on the following pages.

The MER Data Summary Report lists by instructional program, by instructional division, by campus, and by total district a summary of direct expenditures incurred during the fiscal year. Since not all expenditures incurred are applicable to an assignment to an instructional program, a sum entitled "Error Routine Total" is generated in order that a reconciliation of the computer report and the appropriate accounting ledgers can be made. Examples of expenditures not applicable to instructional programs, but included in the Error Routine Total would be new construction expenditures and community service program costs.

¹⁵ Disk data files are data storage devices with direct access capability to the main computer.

The Class Master File Data Summary Report lists by instructional program, by instructional division, by campus, and by college district the total instructional hours for the fiscal year generated by the college district's instructional programs. These instructional hours are categorized by day, evening, academic, or vocational programs. Sample pages of these reports follow. (For the full reports, see the reference found in Section 5.1.

FOOTHILL COMMUNITY COLLEGE DISTRICT

INDIRECT COST ALLOCATION

WORKING TOTALS-MER FILE

CAMPUS 1

BIOLOGICAL SCIENCES

| | |
|------|----------|
| 2112 | 125.69 |
| 2113 | 2047.75 |
| 2114 | 21275.41 |
| 2115 | 22168.07 |
| 2119 | 2291.43 |

| | |
|-----------------------|----------|
| DIVISION DIRECT COSTS | 30556.29 |
|-----------------------|----------|

| | |
|-------------------------|-----------|
| DIVISION OVERHEAD COSTS | 275359.87 |
|-------------------------|-----------|

| | |
|--------------------------|-----------|
| DIVISION TOTAL-ALL COSTS | 305916.16 |
|--------------------------|-----------|

CAMPUS 1

BUSINESS AND DATA PROCESSING

| | |
|------|--------|
| 2219 | 0.00 |
| 2220 | 12.33 |
| 2230 | 220.03 |
| 2240 | 174.76 |
| 2250 | 278.31 |

| | |
|-----------------------|--------|
| DIVISION DIRECT COSTS | 685.43 |
|-----------------------|--------|

| | |
|-------------------------|-----------|
| DIVISION OVERHEAD COSTS | 165001.37 |
|-------------------------|-----------|

| | |
|--------------------------|-----------|
| DIVISION TOTAL-ALL COSTS | 165686.80 |
|--------------------------|-----------|

CAMPUS 1

| | |
|------------------------------|-----------|
| CAMPUS CENTER | 43147.80 |
| AUXILIARY SERVICES | 61067.07 |
| INSTRUCTIONAL ADMINISTRATION | 195054.13 |
| STUDENT PERSONNEL | 499596.78 |
| LIBRARY SERVICES | 193555.16 |
| HEALTH SERVICES 4101-4201 | 10967.14 |

| | |
|-----------------------------|------------|
| CAMPUS ADMINISTRATION TOTAL | 1003388.08 |
|-----------------------------|------------|

| | |
|---------------------------|---------|
| FIELD OPERATION 6220-6229 | 9766.38 |
| FIELD MAINTENANCE 7218 | 777.44 |

| | |
|-----------------------------|----------|
| FIELD OPERATION/MAINTENANCE | 10543.82 |
|-----------------------------|----------|

| | |
|--------------------------|----------|
| PCCL OPERATION 6230-6239 | 16428.89 |
| PCCL MAINTENANCE 7219 | 53.07 |

| | |
|----------------------------|----------|
| PCCL OPERATION/MAINTENANCE | 16481.96 |
|----------------------------|----------|

| | |
|-------------------------------|-----------|
| PLANT OPERATION 6101-6199 | 101834.07 |
| GROUNDS OPERATION 6200-6219 | 27557.01 |
| VEHICLE OPERATION 6300-6399 | 4733.58 |
| TELE OPERATION 6600-6699 | 58542.47 |
| UTILITIES OPERATION 6700-6799 | 99242.23 |
| PLANT MAINTENANCE 7100-7199 | 7479.57 |
| GROUNDS MAINTENANCE 7200-7299 | 1547.29 |
| VEHICLE MAINTENANCE 7301 | 0.00 |
| EQUIP MAINTENANCE 7302 | 0.00 |
| OTHER PLANT OPER 6900-6999 | 4757.12 |

| | |
|----------------------|-----------|
| GEN OPER-MAINT TOTAL | 305693.34 |
|----------------------|-----------|

CAMPUS 1

CAMPUS SUMMARY TOTALS

COSTS

| | |
|--------------------------------|------------|
| EVENING CERTIFICATED SALARIES | 419109.39 |
| DIVISION OVERHEAD AND SALARIES | 2184026.41 |
| DIVISION DIRECT EXPENSE TOTAL | 263654.03 |
| GEN OPER-MAINT TOTAL | 1336107.20 |

| | |
|--------------|------------|
| CAMPUS TOTAL | 4202897.03 |
|--------------|------------|

| | |
|---------------------|----------|
| ERRER ROUTINE TOTAL | 27924.64 |
|---------------------|----------|

| | |
|--------------------|------------|
| CAMPUS GRAND TOTAL | 4230821.67 |
|--------------------|------------|

FOOTHILL COMMUNITY COLLEGE DISTRICT

INDIRECT COST ALLOCATION

CLASS MASTER FILE

CAMPUS 2

| BIOLOGICAL SCIENCES | ACAD HRS | VCC HRS | DAY HRS | EVE HRS | TOTAL HRS |
|---------------------|----------|---------|---------|---------|-----------|
| 2104 | 5868 | 72 | 4248 | 1692 | 5940 |
| 2112 | 1032 | | 492 | 540 | 1032 |
| 2116 | 72 | 1764 | 816 | 1020 | 1836 |
| 2117 | | 3516 | 3516 | | 3516 |
| 2118 | | 1632 | 1632 | | 1632 |
| 2120 | 3216 | 144 | 1608 | 1752 | 3360 |
| 2125 | | 1260 | 1224 | 36 | 1260 |
| DIVISION TOTALS | 10188 | 6388 | 13536 | 5040 | 18576 |

CAMPUS 2

| PHYSICAL SCIENCE | ACAD HRS | VCC HRS | DAY HRS | EVE HRS | TOTAL HRS |
|------------------|----------|---------|---------|---------|-----------|
| 2810 | 4632 | | 3084 | 1548 | 4632 |
| 2820 | 2448 | | 1728 | 720 | 2448 |
| 2830 | 9468 | 540 | 3336 | 6672 | 10008 |
| 2840 | 1860 | | 1044 | 816 | 1860 |
| 2850 | 108 | | 48 | 60 | 108 |
| 2861 | 552 | | 120 | 432 | 552 |
| DIVISION TOTALS | 19068 | 540 | 9360 | 10248 | 19608 |

CAMPUS 2

| SOCIAL SCIENCE | ACAD HRS | VCC HRS | DAY HRS | EVE HRS | TOTAL HRS |
|-----------------|----------|---------|---------|---------|-----------|
| 2904 | 2844 | | 1476 | 1368 | 2844 |
| 2905 | 2796 | | 1584 | 1212 | 2796 |
| 2906 | 1272 | | 528 | 744 | 1272 |
| 2907 | 2700 | | 1440 | 1260 | 2700 |
| 2908 | 2712 | | 1584 | 1128 | 2712 |
| 2910 | 2400 | | 852 | 1548 | 2400 |
| 2911 | 5352 | | 4344 | 1008 | 5352 |
| 2951 | 672 | 3300 | 2592 | 1380 | 3972 |
| DIVISION TOTALS | 20748 | 3300 | 14400 | 9648 | 24048 |
| CAMPUS TOTALS | 130212 | 38976 | 86544 | 82644 | 165188 |

| CAMPUS 2 | | | | | |
|-----------------|----------|---------|---------|---------|-----------|
| ENGINEERING | ACAD HRS | VCC HRS | DAY HRS | EVE HRS | TOTAL HRS |
| 2304 | 3696 | 5388 | 2640 | 6444 | 9084 |
| 2311 | 384 | | 96 | 288 | 384 |
| 2332 | 3072 | 2640 | | 5712 | 5712 |
| 2391 | 600 | 3084 | 2004 | 1680 | 3684 |
| DIVISION TOTALS | 7752 | 11112 | 4740 | 14124 | 18864 |

| CAMPUS 1 | | | | | |
|-----------------|----------|---------|---------|---------|-----------|
| ENGINEERING | ACAD HRS | VCC HRS | DAY HRS | EVE HRS | TOTAL HRS |
| 2304 | 3348 | 4260 | 1224 | 6384 | 7608 |
| 2311 | 2588 | 3852 | 1896 | 4944 | 6840 |
| 2333 | 960 | 432 | | 1392 | 1392 |
| 2361 | 540 | | 180 | 360 | 540 |
| 2365 | 576 | | 480 | 96 | 576 |
| 2366 | 732 | 1692 | 912 | 1512 | 2424 |
| DIVISION TOTALS | 5144 | 10236 | 4692 | 14688 | 19380 |

| CAMPUS 1 | | | | | |
|-----------------|----------|---------|---------|---------|-----------|
| SOCIAL SCIENCE | ACAD HRS | VCC HRS | DAY HRS | EVE HRS | TOTAL HRS |
| 2904 | 456 | | 216 | 240 | 456 |
| 2905 | 4368 | | 2508 | 1860 | 4368 |
| 2906 | 1848 | | 1020 | 828 | 1848 |
| 2907 | 3192 | | 1776 | 1416 | 3192 |
| 2908 | 2364 | | 996 | 1368 | 2364 |
| 2909 | 3228 | | 1788 | 1440 | 3228 |
| 2910 | 3276 | | 1104 | 2172 | 3276 |
| 2911 | 4356 | | 2940 | 1416 | 4356 |
| DIVISION TOTALS | 23088 | | 12348 | 10740 | 23088 |
| CAMPUS TOTALS | 143964 | 31488 | 93888 | 81564 | 175452 |
| DISTRICT TTH | 274176 | 70464 | 180432 | 164208 | 344640 |

5.3 Conclusions and Recommendations

The feasibility of developing a working simulation model of a computer chargeback system has been demonstrated by the data reports of Sections 5.1 and 5.2. These reports show that all of the expenditures of a college can be allocated to the instructional programs which the college offers and that a per unit instructional cost can be determined.

The rationale of the method of allocation of indirect costs will always be debated among those professionals in the field. For example, the maintenance allocation formula used in this simulation program found general acceptance among those Business Managers polled (Appendix II), but on the other hand, the formula was not totally acceptable to all colleges. However, the simulation model demonstrates that whatever formulas are used, the practicality of developing a chargeback system is reasonable for community colleges.

This practicality is tempered, however, with the discovery in this study that the necessary input data for a chargeback system is generally not in direct usable form. For example, the requirement to create two subsidiary programs not originally considered to be part of this study underscores this weakness in basic data usability. However, these two computer programs ("LAS1" and "LAS2") will provide additional computer program resources to other colleges in their task of developing appropriate input data for the simulation model.

The data being handled in all three of the computer programs provides a great potential for many ancillary reports in addition to the two reports found in the previous section. The appropriate college user could, by studying the data record files found in Appendix IV, ask for a complete series of informative computer reports. The majority of these reports could be effected by small logic changes in programs "LAS1" and "LAS2".

These computer programs (as developed by the writer) along with appropriate documentation are available to all interested colleges.¹⁶ (The actual computer programs are printed in their entirety in Chapter 4.)

In summary, the computer chargeback simulation model can provide the community college with the necessary information required to make sound educational decisions. While the model cannot make the decision as to the educational worth as opposed to dollar cost of an instructional program, it can and does provide for the first time the total cost data when considering this difficult equation of cost versus educational value.

¹⁶ Card decks of these programs may be obtained by other colleges from the Data Services Department, Foothill College District, Cupertino, California. These programs are not available to commercial enterprises.

However, additional developmental work must be pursued in achieving a wide use of chargeback systems in community colleges. In California, the most immediate obstacle standing in the way of implementing a system similar to the one developed in this study is the state mandated chart of accounts. This state chart of accounts does not lend itself to instructional program budgeting since it deals in broad expense categories covering many different administrative and program areas.

Another important problem in implementing the model is the system of data collection in many community colleges. Too often, the colleges investigated in this study have developed to consistent method of collecting and storing fiscal data, facility use information, and actual expenditure costs. Without internal consistency in the gathering of this type of information, the practicality of using the model developed in this study is not evident in terms of the model being able to provide consistent meaningful information.

Based on the foregoing comments as well as other observations made throughout this study, the following recommendations for further study and research seem appropriate:

1. A chart of accounts should be developed which is consistent with PPBS and adaptable to computer operations. Further, this chart of accounts should be developed to handle the unique instructional programs of community colleges;
2. Methods of collecting and retaining all types of significant data in various formats should be investigated and tested for usability in potential chargeback systems;

3. A classroom facility use information system should be developed for small community colleges which do not have computer capabilities;
4. A study should be made of the use of cost per instructional hour data in relationship to the decision-making process in community colleges. That is, does knowing what a program costs per instructional hour effect its chances for additional funding, staffing, etc.;
5. Additional information providing computer programs should be developed to take advantage of the data bank developed by computer model of this study. These programs would have the potentiality of providing all users with additional basic data for making sound educational decisions.

BIBLIOGRAPHY

1. Koenig, Herman E. A systems model for management, planning, and resource allocation in institutions of higher education. Paper read before WICHE-ACE Higher Education Management. Information Systems Seminar, Washington, D. C. April, 1969.
2. Income versus effort: How hard are you trying? School Management 13:62-69. January, 1969.
3. American Association of Junior Colleges. 1969 Junior College Directory, Washington, D. C. 1969.
4. California State Department of Education. Conceptual Design for a Planning, Programming, Budgeting System for California Schools. Sacramento, 1969. 66 p.
5. Western Interstate Commission for Higher Education. Information systems and analytical models in the administration of higher education. The Sterling Institute, Washington, D. C. 1969.
6. Heinkel, Otto A. A cost accounting model to assess actual costs of vocational and nonvocational courses. San Diego Community Colleges for Office of the Chancellor, California Community Colleges. Project No. 37-765-AB-21-70. Sacramento. July, 1970.
7. Hirsch, W. F. Education in the program budget in program budgeting, ed. by David Novick. p. 180-181.
8. Computer Systems Documentation Handbook Foothill Junior College District. Los Altos Hills, California. 1969. 62 p.
9. College and University Business Administration, compiled by the National Committee on the Preparation of a Manual on College and University Business Administration. Volume 1. Washington, D. C. American Council on Education. 1952.
10. Handbook of Definitions. For the use and guidance of California community colleges in their reporting to Office of the Chancellor, California Community Colleges. Sacramento. Board of Governors, California Community Colleges. June, 1970. 47 p. plus addendum.

11. Scheps, Clarence. Accounting for colleges and universities. Louisiana State University Press. Baton Rouge. 1949.
12. Committee on Governmental Cost Accounting. Chicago: The Municipal Finance Officers' Association. 1940.
13. Morey, Lloyd. University and college accounting. Boston. Little, Brown and Company. 1966.
14. Thornton, et al. The community junior college. 2nd edition. New York. John Wiley and Sons, Inc. 1966.
15. Blocker, C. E., et al. Two year college: a social synthesis. Englewood Cliffs, N. J. Prentice-Hall. 1965.
16. Cohen, Arthur. Dateline 1979: heretical concepts for the community colleges. Beverly Hills, California. Glencoe Press. 1969.
17. Instructions for Preparing and Submitting Applications for Funds Under the Vocational Education Amendments of 1968. State of California. Sacramento. 1970. p. 34.
18. Burkhead, Jesse. Government budgeting. John Wiley & Sons, Inc. New York. 1965. p. 138-155.
19. Wildavsky, Aaron. The Politics of the budgetary process. Boston. Little, Brown and Company. 1964. p. 1-2.
20. Anshen, Melvin. "The Federal Budget as an Instrument for Management and Analysis" in Program Budgeting, Program Analysis, and the Federal Budget, edited by David Novick. Cambridge, Mass. Harvard University Press. 1967. p. 10.
21. Development of an operational model for the application of Planning-Programming-Budgeting Systems in local school districts. Program Budgeting Note 3, Cost-effectiveness Analysis: What is it? Western New York School Study Council, Buffalo. May, 1969.
22. Benson, Charles S. Perspectives on the economics of education. Readings in School Finance and Business Management. Houghton Mifflin Company. Boston. 1963.

23. Temkin, Sanford. A comprehensive theory of cost-effectiveness, administering for change program. Research for Better Schools, Inc. Philadelphia. April, 1970. 66 p.
24. Finch, James N. Testing the cost yardstick in cost quality studies. Institute of Administrative Research, Columbia University. New York. November, 1967. 5 p.
25. Corbally, John E. School finance. Allyn and Bacon, Inc. Boston. 1962.
26. Heinemann, Harry N., Sussna, Edward. Criteria for public investment in the two-year college; A program budgeting approach. 1969. 26 p.
27. McLure, W. P. Major issues in school finance. Education Administration Quarterly 5:2-14 Autumn. 1969.
28. Hubbard, Robert E. An approach to institutional cost analysis. Experimental Journal of Education. 31:Dec., 1962.
29. Wohlferd, G. H. Cost analysis in education. Educational Forum, 34:339-45. March, 1970.
30. Scales, Eldridge E. Current operating costs of two-year colleges in the south. Southern Association of Colleges and Schools, Commission on Colleges. Atlanta. May, 1969. 57 p.
31. Cage, B. N. and Manatl, R. P. Cost analysis of selected educational programs in the community colleges of Iowa. Journal of Educational Research 63:66-70. October, 1969.
32. Campus (CAATS) Project Volume I: A Progress report on the development of cost simulation models for three Ontario Colleges of applied arts and technology. Systems Research Group. Toronto. November, 1969. 58 p.
33. Brannigan, R. J. A proposal for facilities cost allocation within a program budget structure at Fresno City College. Berkley, Calif. University of California. 1970. 97 p.

34. California Junior College Association Ad Hoc Committee on Program Budgeting. An interim report: progress toward a program budget for California community colleges. California Junior College Association Business Management Committee. 1970. 78 p.
35. De Ricco, L. A. Preliminary report on budget preparation, presentation, and follow-up. San Joaquin Delta College, 1968. 16 p.

APPENDICES

APPENDIX I

The colleges whose budget documents were studied were (all are community colleges):

Cabrillo College
Aptos, California

Monterey Peninsula College
Monterey, California

Peralta Junior College District
Peralta College
Merritt College
College of Alameda
Oakland, California

San Joaquin Delta College
Stockton, California

San Jose City College
San Jose, California

Cuesta College
San Luis Obispo, California

Santa Rosa Junior College
Santa Rosa, California

State Center Junior College District
Fresno City College
Reedly College
Fresno, California

West Valley College
Campbell, California

APPENDIX II

The following colleges were personally visited and discussions on budgeting and expenditure reporting took place with appropriate college administrators (all are community colleges).

California

American River College
Cabrillo College
DeAnza College
Foothill College
Fresno City College
Gavilan College
Lassen College
Ohlone College
San Jose City College
San Mateo College
Sacramento City College
West Valley College

Oregon

Central Oregon Community College
Clatsop Community College
Lane Community College
Linn Benton Community College
Mount Hood Community College
Portland Community College

Washington

Big Bend Community College
Grays Harbor Community College
Skagit Valley Community College
Tacoma Community College
Walla Walla Community College
Whatcom County Community College
Yakima Valley College

APPENDIX III

CHART OF ACCOUNTS

(Foothill Community College District)

| | | AREA (Department, place) CODES |
|--|---------------|--|
| <u>DISTRICT ADMINISTRATION</u> (Campus 4 only) | | |
| 0101 | SUPT | Office of the Superintendent |
| 0102 | BOARD | Board Expense |
| 0103 | ALL DISTRICT | District wide expense |
| 0109 | UNDIS RESV | Undistributed Reserve |
| | | |
| 0201 | EDUC SERV | Educational Services |
| 0203 | INSTR CONTG | District Instruction Contingency |
| 0211 | PERS CERT | Certificated Personnel Expense |
| 0212 | PERS CLS | Classified Personnel Expense |
| 0221 | RESEAR CH | Research |
| 0228 | GRANTS | District Grant Applications Pending |
| 0231 | TECH EDUC | Technical Education |
| 0261 | ADULT COMM | Adult Community Service Short Courses |
| 0262 | CS CHORUS | Adult Community Service Chorus |
| 0263 | CS CHBR ORCH | Adult Community Services Chamber Orch. |
| 0264 | CS SYMP ORCH | Adult Community Service Symphony Orch. |
| | | |
| <u>BUSINESS SERVICES</u> (Campus 4 only) | | |
| 0401 | BUS SERV OF | Business Services Common Expense |
| 0402 | ACCOUNT SERV | Accounting Services |
| 0403 | MATERIAL SERV | Material Services |
| 0404 | DATA SERV | Data Services (production) |
| | | |
| 0590 | PUB TRANS | Public Transportation Expense (non-field trip) |
| | | |
| 0801 | FIXED CHGS | Fixed Charge Expense (Non-Payrol) |
| 0802 | PAYROLL CHGS | Staff Benefit Expense |
| 0803 | PAYROLL CHGS | Teacher Benefit Expense |
| 0804 | PAYROLL CHGS | Retirement Benefit Expense |

CAMPUS CENTER (Campus 1 or 2 only)

| | | |
|------|--------------|---|
| 0901 | CC ADM | Campus Center Adm. Exp. (Including salaries) |
| 0907 | CC BLDG | Campus Center Building Expense |
| 0908 | CC POL | Campus Police |
| 0921 | CC REIM ADM | Reimbursable administrative expense |
| 0924 | CC REIM FOOD | Reimbursable Food Service Salaries |
| 0925 | CC REIM BOOK | Reimbursable Bookstore Salaries |
| 0926 | CC REIM CONC | Reimbursable Concessions Salaries |
| 0927 | CC REIM BLDG | Reimbursable Bldg. Services & Admin. Expense |
| 0930 | LUNCH GRANTS | Lunch Grants in Aid |

COMMUNITY SERVICES (Fund 45 and Campus 4 Only)

| | | |
|------|----------------|--|
| 1101 | COMM SER OF | General Expenses of Community Services |
| 1102 | CS OPR RES | Community Services Operation Reserve |
| 1103 | CS CAP RES | Community Services Capital Reserve |
| 1111 | COM REC SER-FH | Community Recreation Services Foothill |
| 1112 | COM REC SER-DA | Community Recreation Services De Anza |
| 1121 | COM INFO SER | Community Information Services |
| 1123 | CS FOUNDATION | Community Foundation Office |
| 1131 | COM RAD SER | Community Radio Services |
| 1141 | COM SCI SER | Community Science Services |
| 1142 | COM SCI PLAN | Planetarium |
| 1143 | COM SCI OBS | Observatory |
| 1144 | COM SCI MUS | Space Science Museum |
| 1145 | COM SCI CRS | Community Service Science Short Courses |
| 1151 | COM USE FACL | Community Use of Facilities |
| 1152 | COM USE BOX | Box Office |
| 1154 | COM USE AUD | Auditorium |
| 1156 | COM USE RAN | Range Expense for Community Use |
| 1162 | COM CUL SEM | Seminars and Short Courses |
| 1163 | COM CUL CHOR | Schola Cantorum |
| 1164 | COM CUL SINF | Master Sinfonia |
| 1165 | COM CUL ORCH | Nova Vista |
| 1171 | COM MULTICULT | Community Multicultural Program |

AUXILIARY SERVICES (General Fund)

| | | |
|------|---------------|--|
| 1191 | PUBLICATIONS | Publications (General Fund) |
| 1192 | DUPL SERV | Duplicating Services internal printing |
| 1197 | MULTICULT AUX | Auxiliary Multicultural Program |
| 1198 | RESEARCH CONT | Research Contracts |
| 1199 | AUX OPER | Other Auxiliary Operations (non-instruction) |

BUILDING PROGRAM (Funds 15, 18, and 33 only)

| | | |
|------|----------------|---|
| 1201 | CAPITAL OF | Operation of capital program |
| 1202 | CAPITAL LIB | Library capital acquisitions |
| 1210 | SITES | Acquisition of sites |
| 1221 | PAVING | Improvement of Grounds-Lawns & Ground |
| 1222 | PLANTINGS | Improvement of Grounds-Lawns & ground cover, trees and shrubs, including irrigation |
| 1224 | SITE UTILITY | Improvement of Grounds-Drainage, Sewers, Lighting |
| 1227 | FENCING, SIGNS | Improvement of Grounds-Fencing & Signs |
| 1228 | FIELD FACIL | Improvement of Grounds-All Athletic & P. E. field facilities |
| 1241 | NEW CONSTR | Buildings-New Construction, including built-in cabinets |
| 1243 | REMODEL | Buildings-Remodeling |
| 1244 | UTILITIES | Buildings-All additions or improvements to utilities and fixtures |
| 1260 | FURN/EQUIP | New equipment, furniture, and drapes |
| 1270 | FIRE/SAFETY | Fire and Safety Construction (Fund 16 Current Capital) |

TUITION

| | | |
|------|---------|-------------------------|
| 1439 | TUITION | Out-Of-District Tuition |
|------|---------|-------------------------|

INSTRUCTION

| | | |
|------|----------------|---|
| 2001 | PRESIDENT | Office of the President |
| 2002 | DEAN INST OF | Office of the Dean of Instruction |
| 2005 | EVE/SUMMER ADM | Evening and Summer College Administration |
| 2006 | EVE/SUM COUNS | Evening and Summer College Counseling |

| | | |
|---------|-----------------|--|
| 2007 | EVE/SUM CLASS | Evening and Summer Classroom Exp. (Incl. Sal.) |
| 2008 | OFFICE SERV | P. B.X. and clerical services |
| 2010 | ALL-FACULTY | Non-departmental faculty expense |
| 2011 | INSTRUCT SAL | Instruction Salaries |
| 2015 | ACADEMIC SENATE | District Expense for Academic Senate |
| 2016 | FACULTY ORG | District Expense |
| 2016-05 | CTA | Expense to be reimbursed by CTA |
| 2016-06 | AFT | Expense to be reimbursed by AFT |
| 2017 | CONFERENCES | Conferences Sponsored by College |
| 2019 | OTHER | Other ALL-COLLEGE expenses |
| 2022 | OFF CAMPUS INST | Contract-Off Campus Instruction |
| 2023 | TV INSTR | TV Instruction Program |
| 2024 | R. O. T. C. | Expenses for Stanford R. O. T. C. Program |
| 2025 | CONT'G EDUC | Continuing Education |
| 2028 | GRANTS | Campus grant applications pending |
| 2029 | INNOVATION | |

STUDENT PERSONNEL

| | | |
|------|--------------|--|
| 2031 | DEAN STU OFF | Office of the Dean of Students |
| 2032 | REGISTRAR | |
| 2034 | TESTING | Not classroom examination |
| 2035 | COUNSELING | |
| 2036 | FIN AID | Student Financial Aid |
| 2037 | ACTIVITIES | |
| 2038 | GRADUATION | All expenses of graduation ceremonies |
| 2039 | PLACEMENT | |

LIBRARY SERVICES

| | | |
|------|--------------|--|
| 2050 | LIBR OTHER | Other ("Book") operations of Library Services |
| 2054 | LIBR TECH | Library Technical Assistant Program |
| 2055 | AUDIO-VISUAL | Audio-Visual Operations of Library Services |

BIOLOGICAL & HEALTH SCIENCE DIVISION

| | | |
|------|----------------|-----------------------------------|
| 2101 | BIO, H-SC OFF | Division Office |
| 2102 | BIOL SCI GEN | Biological Sciences not specified |
| 2103 | BIOL SAL | |
| 2112 | HEALTH, FA | Health and First Aid Courses |
| 2113 | DENTAL ASST | Dental Assisting |
| 2114 | DENTAL HYGN | Dental Hygiene |
| 2115 | INHALN THERA | Inhalation Therapy |
| 2116 | MEDICAL ASST | Medical Assisting |
| 2117 | REG NURSING | Registered Nursing |
| 2118 | VOC NURSING | Vocational Nursing |
| 2119 | RAD-TECH | Radiologic Technology |
| 2120 | HOME ECON | Home Economics |
| 2125 | NURSRY SCH | Nursery School |
| 2126 | HORTICULTURE | |
| 2127 | PSYSIO-THERAPY | |

BUSINESS DIVISION

| | | |
|------|--------------|--|
| 2201 | BUS DIV OFF | Division Office |
| 2202 | BUSINESS GEN | General Business Courses not specified |
| 2203 | BUS SAL | |
| 2220 | DATA PROCESS | |
| 2230 | REAL ESTATE | |
| 2240 | MGMT/MARKT | Management and Marketing |
| 2250 | TECH/PUB | Technical Publication and Graphics |

ENGINEERING & TECHNOLOGY DIVISION

| | | |
|------|---------------|--|
| 2301 | ENG-TECH OFF | Division Office |
| 2302 | ENG-TECH GEN | Engineering & Technology not specified |
| 2303 | Eng-TECH SAL | |
| 2311 | ELECTRONICS | |
| 2321 | DRAFT-SURV | Drafting-Surveying |
| 2331 | MATERIALS | |
| 2332 | QUALITY CONTR | Quality Control Technology |
| 2333 | INDUST SUPVR | Industrial Supervision |
| 2334 | IND ENG | Industrial Engineering Tech. |
| 2335 | ENG TECH | Engineering Technician Program |
| 2341 | MACH TOOLS | Machine Tools |
| 2361 | ASTRONOMY | Astronomy (Foothill) |
| 2365 | METEROLOGY | Meterology (Foothill) |
| 2366 | CAREER PILOT | Career Pilot Program |
| 2381 | TECH ILLUS | Technical Illustration |
| 2391 | AUTO TECH | |

FINE ARTS DIVISION

| | | |
|------|---------------|--|
| 2401 | FINE ARTS OFF | Division Office |
| 2402 | FINE ARTS GEN | Fine Arts not specified |
| 2403 | FINE ARTS SAL | |
| 2411 | GEN ART | General Art Courses not specified |
| 2413 | COMM ART | Commercial Art |
| 2414 | CERAM | Ceramics |
| 2415 | CRAFTS | |
| 2417 | SCULPTURE | |
| 2421 | GEN DRAMA | Drama Courses including Stage Technical |
| 2430 | PHOTOGRAPHY | |
| 2431 | GEN MUSIC | General Music not specified |
| 2432 | MUSIC BAND | |
| 2433 | MUSIC CHORAL | |
| 2434 | MUSIC ORCH | |

LANGUAGE ARTS DIVISION

| | | |
|------|--------------|-----------------------------|
| 2501 | LANG ART OFF | Division Office |
| 2502 | LANG ART GEN | Language Arts not specified |
| 2503 | LANG ART SAL | |
| 2505 | LANG LAB | Operation of Language Labs |
| 2510 | BROADCAST | |
| 2520 | JOURNALISM | |
| 2530 | READING | |
| 2540 | STUDY SKILLS | |

ETHNIC STUDIES DIVISION

| | | |
|------|------------|------------------------------|
| 2601 | ETHNIC OFF | Division Office |
| 2602 | ETHNIC GEN | Ethnic Studies not specified |
| 2603 | ETHNIC SAL | |
| 2611 | ETHNIC LIT | |

PHYSICAL EDUCATION & ATHLETICS DIVISION

| | | |
|------|-----------------|----------------------------------|
| 2701 | P. E. /ATHL OFF | Division Office |
| 2702 | P. E. GEN | Physical Education not specified |
| 2703 | P. E. SAL | |
| 2711 | REC TECH | Recreation Technician |
| 2721 | BASEBALL | |
| 2722 | BASKETBALL | |
| 2723 | FOOTBALL | |
| 2724 | GOLF | |
| 2725 | SWIM W. POLO | Swimming & Water Polo |
| 2726 | TENNIS | |

| | | |
|------|-----------|---------------------------------|
| 2727 | TRACK | |
| 2728 | WRESTLING | |
| 2729 | GEN ATHL | Expense Common to all Athletics |

PHYSICAL SCIENCE DIVISION

| | | |
|------|--------------|--------------------------------|
| 2801 | PHYS SCI OFF | Division Office |
| 2802 | PHYS SCI GEN | Physical Science not specified |
| 2803 | PHYS SCI SAL | |
| 2810 | CHEMISTRY | |
| 2820 | PHYSICS | |
| 2830 | MATHEMATICS | |
| 2840 | GEOLOGY | |
| 2850 | METEROLOGY | Meterology (De Anza) |
| 2861 | ASTRONOMY | Astronomy (De Anza) |

SOCIAL SCIENCE DIVISION

| | | |
|------|-------------|----------------------------------|
| 2901 | SOC SCI OFF | Division Office |
| 2902 | SOC SCI GEN | Social Science not specified |
| 2903 | SOC SCI SAL | |
| 2905 | ATHRO/SOC | Anthropology/Sociology |
| 2906 | ECONOMICS | |
| 2907 | HISTORY | |
| 2908 | PHILOSOPHY | |
| 2909 | POL SCI | Political Science |
| 2910 | PSYCHOLOGY | |
| 2911 | PSYCH-GROUP | Group Counseling |
| 2951 | LAW ENFORCE | Law Enforcement |
| 2956 | RANGE | Range Expense of Instruction Use |

STORES ETC.

| | |
|------|---------------|
| 3001 | STORES OPER |
| 3002 | STORES INVENT |
| 3100 | PAYABLES |

HEALTH SERVICES

| | | |
|------|--------------|-------------------|
| 4101 | ATHL TRAIN | Athletic Training |
| 4201 | OTHER HEALTH | Other Health |

OPERATION OF PLANT

| | | |
|------|------------|---|
| 6101 | PLANT OFF | Plant Services Office and Common Expense |
| 6102 | BUILDINGS | General Building Operation |
| 6112 | CUSTODIAL | |
| 6113 | HEAT/VENT | Heating and Ventilating |
| 6114 | ELECTRICAL | All Electrical Systems and Signal Systems |

| | | |
|------|-------------|--------------------------------------|
| 6201 | GROUNDS | General Ground Operations |
| 6221 | FIELD FACIL | Athletic Field Operation |
| 6231 | SWIM POOL | Swimming Pool |
| 6301 | VEHICLES | |
| 6601 | TELEPHONE | |
| 6701 | UTILITIES | Utility Charges (except telephone) |
| 6901 | OTHER OPER | Other plant operations not specified |

MAINTENANCE OF PLANT

| | | |
|------|----------------|---|
| 7101 | PLANT MNT OFF | Maintenance Office and Common Expense |
| 7102 | BUILDINGS | General Building Maintenance |
| 7113 | HARDWARE | Maintenance of Locksets, Closers, etc. |
| 7114 | GLASS | Maintenance of all glazing |
| 7116 | FLOOR COVER | Maintenance of floor covering (tile & carpet) |
| 7117 | PAINTING | Maintenance of painting surfaces |
| 7118 | HEAT/VENT | Maintenance of heating and ventilating |
| 7119 | PLUMBING | Maintenance of plumbing fixtures |
| 7121 | ELECTRICAL | Maintenance of all electrical systems not in 7122, signal systems |
| 7122 | SIGNAL SYS | Maintenance of fire alarm, clocks, signal and low voltage systems |
| 7201 | GROUNDS | General grounds maintenance |
| 7211 | PAVING | Maintenance of streets and paths |
| 7212 | LAWN IRRIG | Maintenance of lawns, ground covers, and irrigation |
| 7213 | TREE SHRUB | Maintenance of trees and shrubs |
| 7214 | SITE UTILITIES | Maintenance of site utilities |
| 7217 | FENCING, SIGNS | Maintenance of fencing and signs |
| 7218 | FIELD FACIL | Maintenance of athletic field facilities |
| 7219 | SWIMMING POOL | Maintenance of swimming pool, equipment and deck |
| 7301 | VEHICLES | Maintenance of all vehicles |
| 7302 | FURN EQUIP | Maintenance and Repair of general furniture |

APPENDIX IV

Data Record Input File Descriptions

Program "LAS1" :

District code
Fund code
Campus code
General ledger code
Area code
Type code
Grant code
Amount

Program "LAS2" :

Class Master number
Area code
Division code
Campus code
Term
 Year
 Quarter
Day/Evening class
Academic/Vocational Class
Weeks duration
Hours per week
Room number
Assignable square footage
Hours per week times assignable square feet
Instructor's name

Program "LAS3" :

Card Input A (Summary totals from "LAS2")
Campus code
Card code
Division code
Area code
Total instructional hours
Card Input B (Summary totals from "LAS1")
Campus code
Card code

Division code

Area code

Amount

Disk Input A (Individual program totals from "LAS2")

Campus code

Division code

Area code

Day academic hours

Day vocational hours

Evening academic hours

Evening vocational hours

Instructional hours times assignable square feet

Physical Education total instructional hours

Total vocational hours

Total academic hours

Total instructional hours

Disk Input B (Individual program totals from "LAS1")

Campus code

Division code

Area code

Amount