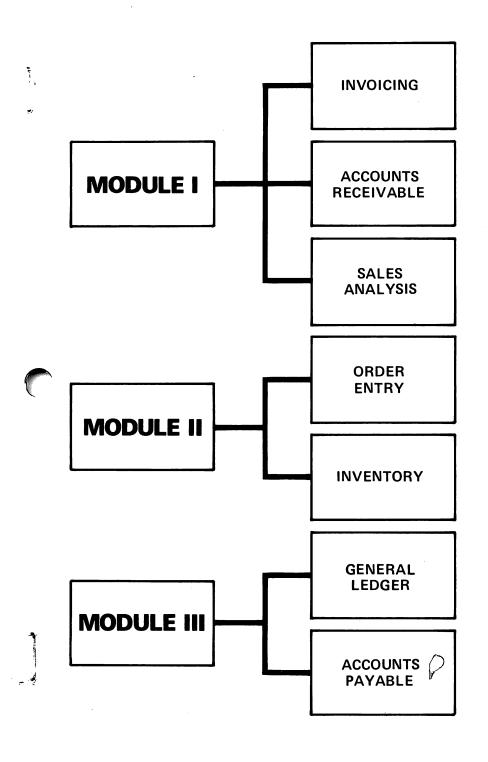
# INTRODUCING GBS



(WANG)

# INTRODUCING GBS

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# Table of Contents

What is GBS?	Page
What is the overall design of GBS like?2	
What is the overall design of GBS like? 2	system? 1
What computers are required to run GBS?	required to run GBS?

#### What is GBS?

The Application Program Tool General Business System (GBS) has been designed to assist software vendors in the development of business application software for end-users. GBS is designed primarily for use on our WCS/20 and WCS/30 hardware. Because of its large size, GBS has been divided into four modules:

- . MOD I Invoicing, Accounts Receivable, Sales Analysis
- MOD II Order Entry, Inventory
  (MOD I is a prerequisite for Mod II)
- . MOD III Accounts Payable, General Ledger
- . MOD IV Payroll

MODS I and II are intended to be used together; MOD I can be used alone but the user of MOD II must have MOD I programs and documentation. MOD III and MOD IV are stand-alone modules.

#### Is GBS a turnkey system?

GBS is not intended to be a turnkey system; it has been designed to include these applications judged most common to the largest population of users, in particular the small and medium sized business. It is expected that software vendors will perform all installations and make the appropriate modifications to the system for the user. GBS has specifically been designed with vendor modifications in mind to provide the most comprehensive business-application package which can be modified with the minimum effort by the vendor. At minimum, the vendor must decide on file allocations and set up the system on the user's hardware. If necessary, the vendor can make important modifications to the system.

# What is the overall design of GBS like?

A number of important standards and principals have been adhered to throughout the development of GBS:

- common utilities and subroutines have been used throughout the system for similar repetitive tasks.
- Wang's KFAM (Keyed File Access Method) has been extensively used for file handling.
- Wang's latest SORT utility has been used for file sorting and rearrangement.
- file I/O routines have been modularized to minimize potential program changes in read/write routines.
- . I.S.S. utilities have been included in the package to simplify program modifications and maintenance.
- the Report Generator Utility program has been included to simplify report programming.
- a strict set of rules for naming variables and numbering program line numbers has been established and maintained.
- efficient field layouts have been utilized to optimize file usage.
- file handling and updating has been optimized with diskette and hard disk random access capabilities.
- most critical files are updated on-line in the diskette system.
   All files in the disk system are updated on-line.
- time consuming merge operations are completely eliminated in the disk system.
- file backup procedures are provided as part of the standard operating system.
- · upgrade ability from diskette to disk system is ensured by keeping file layouts identical.

### What computers are required to run GBS?

GBS exists in two forms, a 'junior' and a 'senior' version. The 'junior' version runs on a WCS/20 and uses diskettes for all programs and files. The 'senior' version runs on a WCS/30 and uses hard disks for programs and data files. Both versions require 24K RAM and a printer, either a 2221W or a 2231W-2. GBS programs were originally written for the 2221W; however all programs which produce printed output on pre-printed forms have been modified to print on the 2231W-2 which has a shorter line length. These modified programs are available from the home office.

What computer is required to set up a GBS installation?

All GBS modules for either disk or diskette systems are distributed to vendors on diskettes. It is up to the vendor to perform the transfer of program files to hard disks if he is installing a hard disk system. If a vendor is making a diskette installation on a WCS/20, the diskette drives are available for accessing the GBS diskette-based routines. If he is making a disk installation on a WCS/30, he must have available at least one diskette unit to read the diskette-based disk routines.

How do the diskette and disk versions of GBS differ?

The diskette version of GBS is merely a subset of the disk version. It includes all of the important program capabilities and is principally limited by the size of data files which can be accommodated. Additionally, the GBS control file, which is available as a potential catch-all and audit trail on the disk system, has been reduced to a single sector containing A/R balance, next invoice number, etc., in the diskette system. Since diskettes have significantly smaller file capacity than disks, files have been segregated onto several diskettes in the diskette system although they all reside on the fixed and removable disks in the disk system. Established programming rules have ensured that file formats are identical in the two versions.

In detail, what is in MOD I?

MOD I contains Invoicing, Accounts Receivable and Sales Analysis. The invoicing system is a post-billing system which has automatic access to pre-established customer, salesmen and inventory files. The customer file contains:

- . customer number
- . customer name and address
- . ship-to-code
- . location code
- . discount class
- . credit limit
- . salesman number
- . service charge code
- phone number
- . price code (which of three inventory prices to use)
- . A/R code (open item or balance forward)
- . partial shipment code
- . current balance
- . current month cost
- . YTD cost
- . current month sales
- . YTD sales
- . date of last payment
- . date of last transaction
- . ship-to-address

#### The inventory file contains:

- . product ID with expandable grouping feature
- . product description
- unit of shipment (ea., qt., lb., etc.)
- . date of last sale
- vendor lead time (for ordering)
- alternate ID for substitute product
- . quantity on hand
- . quantity on order
- . reorder point
- . units sold in current month
- YTD units sold
- . average unit cost
- . last purchase unit cost
- total cost (average unit cost times quantity on hand)
- month-to-date total units sold
- . month-to-date total sales dollars of units sold
- . YTD cost of all units sold
- . YTD total sales dollars of units sold
- . three unit sale prices

#### The salesman file contains:

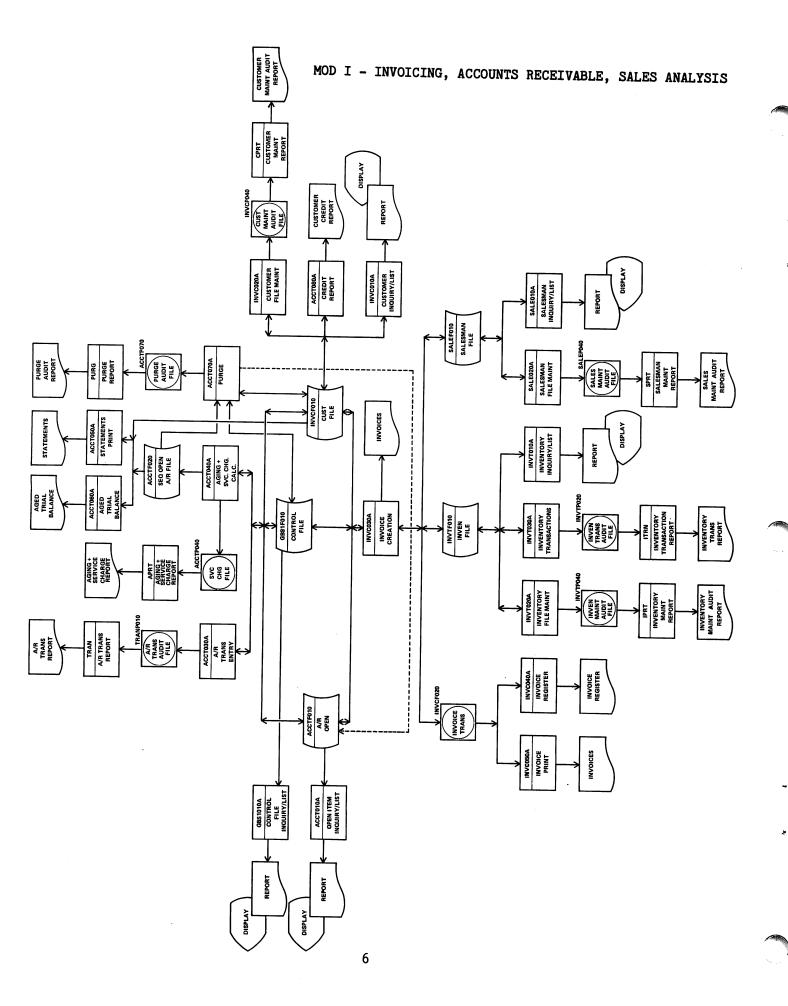
- . salesman number
- . salesman name
- territory covered
- . month-to-date sales dollars of units sold
- · YTD sales dollars of units sold
- . current month cost of units sold
- YTD cost of units sold

The accounts receivable system interfaces automatically with the invoicing system through the invoice transaction file and updates the open item file and the control file as needed. The open item file carries all the information needed for keeping track of accounts and sending out the appropriate statements.

#### The open item file contains:

- customer number
- . invoice number
- transaction code to specify transaction type:
  - balance forward
  - . unapplied payment
  - . debit memo
  - . credit memo
  - previous month service charge
  - invoice
  - . payment
  - current month service charge

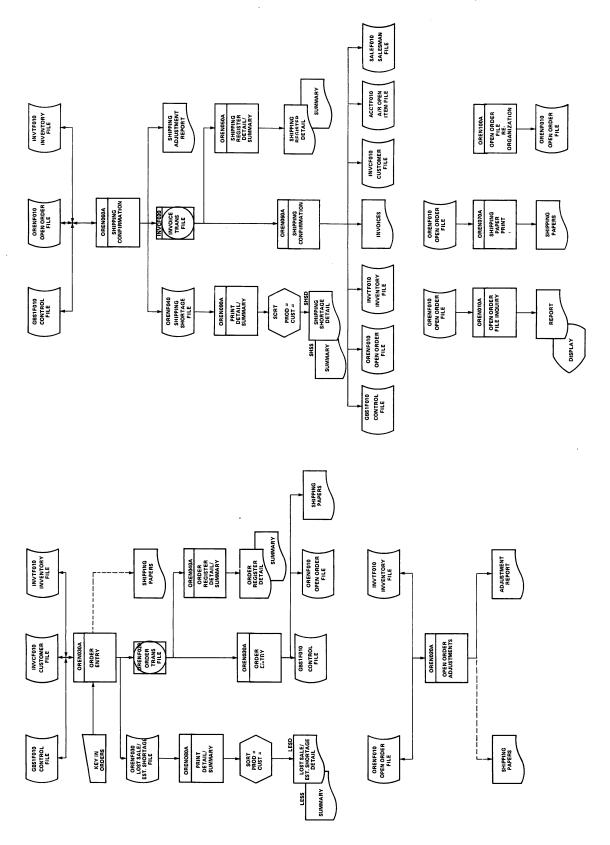
- aging code:
  - . current
  - . 31 to 60 days
  - . 61 to 90 days
  - over 90 days
- dispute code
- referenced invoice number (for credit, debit memos)
- invoice amount
- . discount and allowance amount
- . amount paid
- . check reference number
- . transaction date
- . current amount due
- past amounts due (31 to 60, 61 to 90, over 90) for balance forward
- . service charge amounts (current, 31 to 60, 61 to 90, over 90) due



#### What about MOD II?

MOD II contains order-entry invoicing, inventory reporting and programs for the reporting of physical inventory. The order-entry system uses the master files created in MOD I, updating them as appropriate to maintain accurate records and keep the open item file up-to-date. MOD I is thus a prerequisite for MOD II. MOD II additionally contains the open order file in which the following information is stored:

- . order date
- . terms description
- . terms discount
- . terms due date
- . three sales tax indicators
- . invoice discount (percentage)
- . partial shipment code
- . price code
- . order number
- . sequence number
- . product number
- . product description
- . location code
- . price override
- . taxable code
- . unit of measure
- . quantity ordered
- . quantity released
- . discount percent
- . unit price
- . net amount



# What forms and reports are prepared by GBS MODS I and II?

# MOD I prepares the following documents on prepared forms:

- . invoices
- . statements

# It also prepares the following reports:

- . invoice register
- . A/R transaction report
- . aging and service charge report
- . aged trial balance
- . purge audit report
- . customer credit report
- . customer list
- . customer maintenance audit report
- . control file list (disk only)
- open item list
- . inventory transaction report
- . inventory maintenance audit report
- . inventory list
- . salesman list
- . salesman maintenance audit report
- . sales analysis by product, customer and salesman

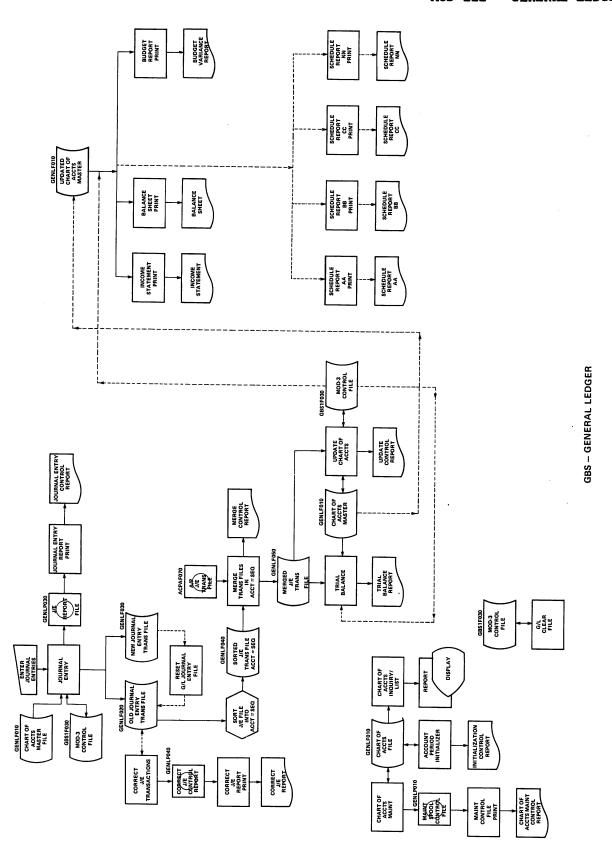
# MOD II prepares the following documents:

- . shipping papers
- detail order register
- . summary order register
- . detail lost sale/estimated shortage report
- . summary lost sale/estimated shortage report
- . adjustment report
- . shipping confirmation invoices
- . detail shipping register
- . summary shipping register
- . detail shipping shortage report
- . summary shipping shortage report
- . open order file list
- . low stock report
- . inventory maintenance report
- . inventory transaction report
- . stock status report
- . inactive item report
- . inventory file report
- . physical inventory sheets
- . inventory variance report

#### What about MOD III?

 $\ensuremath{\mathsf{MOD}}$  III prepares the accounts payable and general ledger reports as follows:

- . chart of accounts list (detail or summary)
- . A/P open item list
- . A/P distribtution report
- . journal entry correction report
- . A/P transaction report
- . open item maintenance report
- . check register
- checks
- . check control report
- . A/P update report
- . vendor maintenance report
- . vendor list
- . journal entry control report
- . merge journal entry control report
- . update control report
- . chart of accounts maintenance report
- . account period initialization report
- . trial balance report
- . income statement
- . balance sheet
- budget variance report
- . schedule reports



#### WHAT KIND OF THROUGHPUT CAN BE ACHIEVED WITH EACH CONFIGURATION?

On the average, there is a significant difference between the number of invoices, statements and shipping confirmations which can be output with each different equipment configuration.

# For example, with a 2200 diskette system:

To run Invoice Create, Print, and Update: approx 11\* invoices/hour.

To run A/R Aging, ATB, Statements and Purge: approx 277 statements/hour.

To run Shipping Confirmation with Invoice Print and Update: approx 12\*invoices/hour.

To run Order Entry, with Print and Update: approx. 10\* invoices/hour.

#### With a 2200 hard disk system:

To run Invoice Create, Print and Update: approx 12\*invoices/hour.

To run A/R Aging, ATB, Statements and Purge: approx 356\* statements/hour.

To run Shipping Confirmation with Invoice Print and Update: approx 16\*invoices/hour.

To run Order Entry, with Print and Update: approx. 11\* invoices/hour.

#### With a 2200 VP diskette system:

To run Invoice Create, Print and Update: approx. 27\*invoices/hour.

To run A/R Aging, ATB, Statements and Purge: approx. 923 statements/hour.

To run Shipping Confirmation with Invoice Print and Update: approx. 41\* invoices/hour.

To run Order Entry, with Print and Update: approx. 28\* invoices/hour.

<sup>\*</sup>Average 15 lines per invoice

#### With a 2200 VP hard disk system:

To run Invoice Create, Print and Update: approx. 32\*invoices/hour.

To run A/R Aging, ATB, Statements and Purge: approx. 1241\* statements/hour.

To run Shipping Confirmation with Invoice Print and Update: approx. 84\*invoices/hour.

To run Order Entry, with Print and Update: approx. 33\* invoices/hour.

Detailed timing information for the programs of MODs I and II is provided on the next few pages.

<sup>\*</sup>Average 15 lines per invoice

All times	are in sec	onds.	2200	T			2200	VP	
		DK	T	DK	•	DK	T	DK	•
		PER UNIT	UNITS/ HR	PER UNIT	UNITS/ HR	PER UNIT	UNITS/ HR	PER UNIT	UNITS/ HR
Invoicing	5 lines 10 15	180 254 325	20 14 11	178 239 309	20 15 12	75 102 133	48 35 27	63 87 114	57 41 32
(Invoice C	reate, Pri	nt & U	Ipdate)						
Order Entr	r <b>y</b> 5 10 15	165 263 356	22 14 10	154 244 323	23 15 11	62 96 127	58 38 28	54 79 108	67 46 33
(Order Ent	ry, Print,	Updat	e)						
Shipping Conf	5 10 15	194 239 293	19 15 12	142 180 224	25 20 16	65 71 87	55 51 41	28 32 43	129 113 84
(Shipping	Confirmati	on Ent	ry, Prin	ıt & Up	date)				
Month End ATB, Stmts		13	277	10.1	356	3.9	923	2.9	1241

		2200 DISKETTE	SKETTE NO OF	220	2200 DISK	VP DI	VP DISKETTE	VP DISK	SK NO OF
FUNC TION	UNIT	TIND	UNITS/HR.	UNIT	UNITS/HR.	UNIT	UNITS/HR.	UNIT	UNITS/HR.
1. CUSTOMER FILE MAINTENANCE (ADD CUSTOMER TO FILE)	CUSTOMER	11	51	89	53	617	47	6†	47
2. INVENTORY FILE MAINTENANCE (ADD PRODUCT TO FILE)	PRODUCT	62	28	28	62	01	06	36	100
3. SALESMAN FILE (ADD SALESMAN TO FILE)	SAL ESMAN	27	133	16	225	<b>8</b> 7	200	01	360
4. INVENTORY TRANSACTION ENTRY	ENTRY	0	360	6	001	9	009	9	009
5. INVOICE CREATE (NO PRINT) (5 LINE ITEMS PER INVOICE)	INVOICE	108	33	116	31	617	74	9ħ	78
6. INVOICE PRINT (5 LINE ITEMS PER INVOICE)	INVOICE	11	212	11	212	1	327	Ε	327
7. INVOICE UPDATE (5 LINE ITEMS PER INVOICE)	INVOICE	55	65	45	80	51	240	9	009
8. INVOICE CREATE (NO PRINT) (10 LINE ITEMS PER INVOICE)	INVOICE	157	23	158	23	69	52	99	55
9. INVOICE PRINT (10 LINE ITEMS PER INVOICE)	INVOICE	22	164	21	17.1	<del>1</del> 2	257	<del>1</del>	257
10. INVOICE UPDATE (10 LINE ITEMS PER INVOICE)	INVOICE	75	817	09	09	19	190	7	514
11. INVOICE CREATE (NO PRINT) (15 LINE ITEMS PER INVOICE)	INVOICE	198	18	200	18	88	14	83	43
12. INVOICE PRINT (15 LINE ITEMS PER INVOICE)	INVOICE	34	106	32	113	23	157	22	164
13. INVOICE UPDATE (15 LINE ITEMS PER INVOICE)	INVOICE	93	39	77	<b>L</b> tr	22	164	6	001
14. ORDER ENTRY (NO PRINT) (5 LINE ITEMS PER ORDER)	ORDER	121	30	116	31	91	78	715	98

FUNCTION	UNIT	2200 DISKETTE TIME PER NO. UNIT UNITS	SKETTE NO. OF UNITS/HR.	2200   TIME PER UNIT	DISK NO. OF UNITS/HR.	VP DISKETTE TIME PER NO. OF UNIT UNITS/HI	KETTE NO. OF UNITS/HR.	VP TIME PER UNIT	VP DISK TIME PER NO. OF UNIT UNITS/HR.
15. ORDER ENTRY PRINT (5 LINE ITEMS PER ORDER)	ORDER	17	212	17	212	6	700 1	6	0017
16. ORDER ENTRY UPDATE (5 LINE ITEMS PER ORDER)	ORDER	27	133	21	171	7	514	æ	1200
17. ORDER ENTRY (NO PRINT) (10 LINE ITEMS PER ORDER)	ORDER	197	18	188	19	47	6tr	65	55
18. ORDER ENTRY PRINT (10 LINE ITEMS PER ORDER)	ORDER	23	157	23	157	21	300	12	300
19. ORDER ENTRY UPDATE (10 LINE ITEMS PER ORDER)	ORDER	£4	₩8	33	109	10	360	٥ı	1800
20. ORDER ENTRY (NO PRINT) (15 LINE ITEMS PER ORDER)	ORDER	268	13	549	14	66	36	88	t†
21. ORDER ENTRY PRINT (15 LINE ITEMS PER ORDER)	ORDER	30	120	29	124	15	240	15	240
22. ORDER ENTRY UPDATE (15 LINE ITEMS PER ORDER)	ORDER	58	62	45	80	13	277	Ŋ	720
23. SHIPPING CONFIRMATION (5 LINE ITEMS PER ORDER)	INVOICE	75	811	54	29	18	200	6	00†
24. SHIPPING CONFIRMATION PRINT (5 LINE ITEMS PER ORDER)	INVOICE	20	180	19	189	1	327	1	327
25. SHIPPING CONFIRMATION UPDATE (5 LINE ITEMS PER ORDER)	INVOICE	66	36	69	52	36	100	ھ	450
26. SHIPPING CONFIRMATION (10 LINE ITEMS PER ORDER)	INVOICE	89	017	09	09	22	164	œ	450
27. SHIPPING CONFIRMATION PRINT (10 LINE ITEMS PER ORDER)	INVOICE	25	144	24	150	₹	257	14	257
28. SHIPPING CONFIRMATION UPDATE (10 LINE ITEMS PER ORDER)	INVOICE	125	53	96	38	35	103	10	360

NNO. OF ILME PARA NOL. OF THINE PER NOL. OF			2200 DISKETTE	KETTE	2200 DISK		VP DISKETTE		VP DISK	
THOM PAIRS   TAYOLICE   151   24   165   24   165   25   150   25   160   25   150   25   160   25   150   25   160   25   160   25   150   25   160   25   150   25   160   25   150   2	ION	UNIT	TIME PER UNIT	NO. OF UNITS/HR.	TIME PER UNIT	•	TIME PER UNIT	NO. OF UNITS/HR.	TIME PER UNIT	NO. OF UNITS/HR.
NAME   STANK   STANK	CONFIRMATION ITEMS PER ORDER)	INVOICE	105	34	29	54	58	129	6	001
THOM UPDATE   INVOICE   151   24   123   29   36   100   12   114   11	CONFIRMATION PRINT ITEMS PER ORDER)	INVOICE	37	76	34	106	23	157	22	164
Name	CONFIRMATION UPDATE ITEMS PER ORDER)	INVOICE	151	54	123	53	36	100	12	300
The color of the	Y STOCK STATUS REPORT	PRODUCT	2	1800	1.6	2250	1.4	2571	1.3	2769
ANCE CALC. TIEM 4 900 3 1200 4 4500 4  ANCE ITEM 2 1800 1250 5 7200 4  ITEM 3 1200 1260 13 7200 14  ITEM 3 1200 13 1200 14  ITEM 17 212 126 130 13 1200 14  ITEM 17 212 126 131 10 360 17  ITEM 17 212 126 131 10 360 14  AINTENANCE ACCOUNT		ANSACTION	24	150	23	157	Ξ	327	10	360
TIRM   11   11   11   11   11   11   11	WITH SVC. CHG. CALC.	ITEM	₽	006	m	1200	φ.	4500	₽.	0006
TIESH   120   3   1200   1.8   2000   1.7   11584   1200   2.5   1440   1.8   2000   1.4   11584   1200   12.5   1440   1.6   2.5   1440   1.8   4500   1.4   1.8   1200   1.5   1.8   1	TRIAL BALANCE	ITEM	2	1800	1.6	2250	3.	7200	7.	0006
TIRM   1200   1200   15.6   231   100   360   100	EMENTS	ITEM	#	006	m	1200	1.8	2000	1.7	2118
HANCE LEAN LEAD	EN .	ITEM	m	1200	2.5	1440	φ.	4500	₹.	0006
ENANCE         VENDOR         50         72         43         84         32         113         29           ALYTENANCE TOURES)         ACCOUNT         76         47         83         43         60         40         90         42           ALYTENANCE TEUNEST         ACCOUNT         44         82         41         88         41         88         42         50         42         50           ALYTENDGET         ACCOUNT         44         82         47         82         42         82         157         20           NT         OPEN ITEM         7         47         60         60         42         86         1.8           NT         OPEN ITEM         7         514         60         60         1.4         2571         1.8           AND         40         90         2.2         1636         6.1         60         6.0         6.0         6.0         7.8           AND         40         90         2.2         1636         2.1         1714         7.2           AND         40         40         40         40         40         40         7.2           AND         40	BUILD	ITEM	17	212	15.6	231	10	360	10	360
MITERALANCE UDGET FIGURES)         ACCOUNT         44         82         47         83         43         40         90         42           AINTENANCE TROUGH         ACCOUNT         44         82         41         88         41         82         41         82         42         82         42         82         42         82         42         82         42         82         42         82	TLE MAINTENANCE IDOR TO FILE)	VENDOR	20	72	£†r	ф8	32	113	53	124
ATMTENANCE         ACCOUNT         44         82         41         88         23         157         20           NT         TRUDGET         TRANSACTION         77         47         60         42         86         28         28           NT         OPEN ITEM         8         450         7         514         6         60         1.4         2571         1.8           GISTER         CHECK         12         300         12         300         6         600         5           AND         TRANSACTION         1.6         2250         1.4         2571         1714         5.5           DOR         TRANSACTION         12         300         9         400         4         900         1.3         1.2         300         1.3         1.3         1.3         1.3         1.3	. ACCTS. MAINTENANCE T. WITH BUDGET FIGURES)		92	т.	83	143	017	06	717	98
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CHECK         12         300         12         300         6         600         5           AND         CHECK         4         900         2.2         1636         2.1         1714         .5           INT         CHECK         1.6         2250         1.4         2571         1.2         3000         1.2           DOR         TRANSACTION         12         300         9         400         4         900         1.3           JOURNAL ENTRY         3         1200         1.9         1894         1.3         2769         .4		OPEN ITEM	7	514	9	009	1.4	2571	9.	0009
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INT         CHECK         1.6         2250         1.4         2571         1.2         3000         1.2           DOR         TRANSACTION         12         300         9         400         4         900         1.3           JOURNAL ENTRY         3         1200         1.9         1894         1.3         2769         .4	: CHECK REGISTER S. MANUAL AND C. CHECKS)	CHECK	₽	006	2.2	1636	2.1	1714	ī.	7200
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		NAL ENTRY	ĸ	1200	1.9	1894	1.3	2769	₹.	0006

	RINCTION	ELNI	2200 DISKETTE TIME PER NO. UNIT UNIT	KETTE NO. OF UNITS/HR.	2200 I TIME PER	DISK NO. OF	VP DISKETTE TIME PER NO.	KETTE NO. OF	VP DISK TIME PER NO	ISK NO. OF	
50. 1	DISTRIBUTION REPORT (DETAIL)	JOURNAL ENTRY	5	720	5	720		1200	2.9	1241	
51.	JOURNAL ENTRY TRANSACTIONS	JOURNAL ENTRY	26	138	25	144	16	225	15	240	
52.	SORT JOURNAL ENTRIES	JOURNAL ENTRY	m	1200	1.5	2400	1.3	2769	ĸ.	12000	
53. 1	53. MERGE JOURNAL ENTRIES	JOURNAL ENTRY	-	3600	6.	4000	₽.	0006	Э	12000	
54. 1	(DETAIL)	JOURNAL ENTRY	7	514	7	514	m	1200	2.7	1333	
55. 1	TRIAL BALANCE (SUMMARY)	JOURNAL ENTRY	7	514	9	009	2.8	1286	1.2	3000	
56. (	56. CHART OF ACCTS. UPDATE	JOURNAL ENTRY	æ	1200	2.3	1565	1.5	2400	e.	12000	
57.	57. INCOME STATEMENT	ACCOUNT	3	1200	ю	1200	6.	4000	ω.	4500	
58. 1	58. BALANCE SHEET	ACCOUNT	8	1800	1.7	2117	6.	4000	.5	7200	
59. 1	59. BUDGET REPORT	ACCOUNT	য়	006	e	1200	1.5	2400	1.5	2400	
. 09	60. ACCT. PERIOD INITIALIZER	ACCOUNT	1.6	2250	1.3	2769	η.	0006	٧.	18000	

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