INTRODUCTION

Today's companies need a system that can do the complete job of data gathering, data processing, final-copy formatting, and final-copy output. Wang's Virtual Storage Integrated Information System, known as VS/IIS, handles a business task from start-up to sign-off.

VS/IIS is designed for users requiring large-volume computer and word processing services. VS data processing provides users with a versatile, interactive operating system; virtual memory; and multiple languages: COBOL, BASIC, RPG II, FORTRAN, PL/I, Assembler, and a VS Procedure language. VS word processing offers a wide range of office application capabilities and virtually every type of editing and formatting feature. VS/IIS supports letter-quality output peripherals, in addition to the standard data processing peripherals and easy-to-use CRT workstations for data and word entry.

Together, the word processing and data processing software and hardware provide users with expanded processing power. With just one system, users can input information, manipulate it, store it, and produce final-copy output. For example, users can convert financial information generated through a data processing program into a word processing document. The document can then be typeset to produce the company's annual report.

CONFIGURATION

A basic VS/IIS configuration includes at least two workstations, a printer, and disk storage ranging in size from 30.0 million to 4.6 billion characters. One of these workstations, designated as an operator's console, can be used for data processing functions, but does not execute word processing functions. Any additional workstations can be the "combined" model that supports both word processing and data processing activities.

Each workstation consists of an 80-character by 24-line display and an easy-to-use typewriter-like keyboard. Sixteen Program Function (PF) keys are located at the top of the keyboard. In data processing mode, the PF keys are user programmable; in word processing mode, these 16 keys initiate word processing functions. A numeric keypad to the right of the keyboard provides a convenient means of entering numeric data.

The wide range of peripherals supported by a VS/IIS includes daisy wheel, matrix, and uppercase and lowercase band printers. Options for the daisy printers are an envelope feeder, twin sheet feeder and a wide carriage printer. VS/IIS also supports archiving workstations for local filing and retrieving functions, as well as data transport to other VS systems, Wang Word Processing (WP) Systems, Office Information Systems (OIS), and most 2200 Systems.

SECURITY

Users must be able to protect individual files and system resources. They also need to prevent unauthorized users from gaining access to the system. VS/IIS offers a security system that helps meet these needs.

Before users interact with the system, they must log on by entering a User ID and password assigned by the system security administrator. Security at the file level allows users to arrange their work into protection classes by a common element, such as department, author, or charge number. The system security administrator then assigns access rights to these classes.

User access rights and file rights must match in order for users to gain entry into a document or file. Thus, VS/IIS security allows many users to work within a protection class while prohibiting others from accessing their work.

INFORMATION SHARING

VS/IIS offers users data processing functions, as well as easy access to word processing features. From a single menu, users can select to run programs, convert documents into data files and vice versa, gather document and library summary information, and perform advanced word processing functions.

VS document access subroutines give programmers the tool to access selective information in word processing documents. Text can be searched,

modified, printed, and incorporated into a program, enabling the programmer to directly use VS word processing documents as data processing input and output files.

Data taken from VS data files can be converted into word processing documents. For example, tables and reports generated through a data processing program can be copied from a data file and written into a word processing document, while the document is being prepared as a formal proposal. Users can also convert entire word processing documents into VS data files, thus providing a means for information exchange.

VS/IIS enables users to collect and summarize system-wide information about VS word processing documents. Through a selection screen, users can request information by title, author, operator, comment field, number of pages, date, time, work time, and keystrokes.

Users can select information about a single document or for all libraries on the system. Reports can be customized to provide valuable information about operator productivity, disk space utilization, storage management, use of system resources, work time statistics, and job accounting.

TEXT PROCESSING

Because the VS/IIS has a visual text processor, only minimum operator training is needed for maximum productivity. Learning word processing on the VS/IIS is comfortable and easy.

Word processing menus and operator prompts clearly guide users through the stages of a job. Even line endings are taken care of by the automatic word wraparound feature. In addition, word processing on the VS is functionally compatible with word processing on other Wang systems, so that users trained on a Wangwriter or OIS will have little trouble transferring their skills.

Editing Capabilities

Included in the list of powerful editing capabilities are the insertion and deletion of characters, words, phrases, or entire sections of text. Moving and copying functions allow a portion of a document or the entire document to be moved or copied to another area within the same document or to be moved or copied into a separate document.

Commonly used words, phrases, and standard paragraphs can be quickly recalled and displayed on the screen with only two keystrokes. Called Glossary, this feature also enables users to store a series of keystrokes to be executed on recall.

The Decision Processing functions enable users to increase the power of Glossary entries. Decision Processing tests conditions, nests and loops Glossary routines, and displays prompts and messages.

Advanced Functions

VS/IIS supports most of the Advanced Functions available on the OIS: Calculator, Modify Format Lines, Super Global Replace, Index Generator, and Paragraph Numbering and Table of Contents Generator. These functions simplify many time-consuming editing tasks.

For example, Super Global Replace allows as many as 80 different words or phrases to be simultaneously replaced within a document. Index Generator finds all occurrences of user-specified key words in a document, regardless of case, and lists them by page number in an index at the end of the document.

FEATURES

VS/IIS is a versatile system that can accommodate both data processing and word processing activities. The following summarizes some of the features that VS/IIS offers.

Hardware Modularity — Meeting a range of needs from entry level to large scale, VS/IIS provides for smooth growth. Small configurations expand comfortably and economically as processing needs increase.

Data Processing Supported Hardware — VS architecture accommodates a variety of high-speed output peripherals for draft applications.

Word Processing Supported Hardware — VS/IIS supports peripherals that output letters, reports, manuals, and mailing labels in final-quality format.

Workstations — The familiar typewriter-like keyboards with numeric keypads can be used for data processing and word processing, thereby integrating processing operations that mix both data and word processing functions.

VS Disk Capacity — VS/IIS allows users to create and maintain many documents on-line for quick access. The system also provides users with unlimited off-line storage without complicated and time-consuming procedures.

Document Organization on Disk — Users create documents in libraries, each of which has user-specified formats and print parameters.

Intersystem Transfer — Word processing compatibility throughout Wang systems allows users to file information onto archive diskettes for transfer to another VS, OIS, WP System, or most 2200 Systems.

Data Communications — VS communications software and hardware support communications with other systems by means of 2780, 3780, 3271, and Teletypewriter emulators, or WangNet.

User Prompts — Easy-to-understand statements, known as prompts, guide users through word processing and data processing operations. Prompts may request users to supply needed information for processing, or they may request users to perform a specific action for processing to continue.

Store and Recall Repetitive Keystrokes — Users can automatically perform word processing functions through Glossary and Decision Processing.

User Training — Word processing users need minimum training time. Data processing users can take advantage of the many programmer aids, debugging facilities, and utilities available to simplify their jobs.

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