

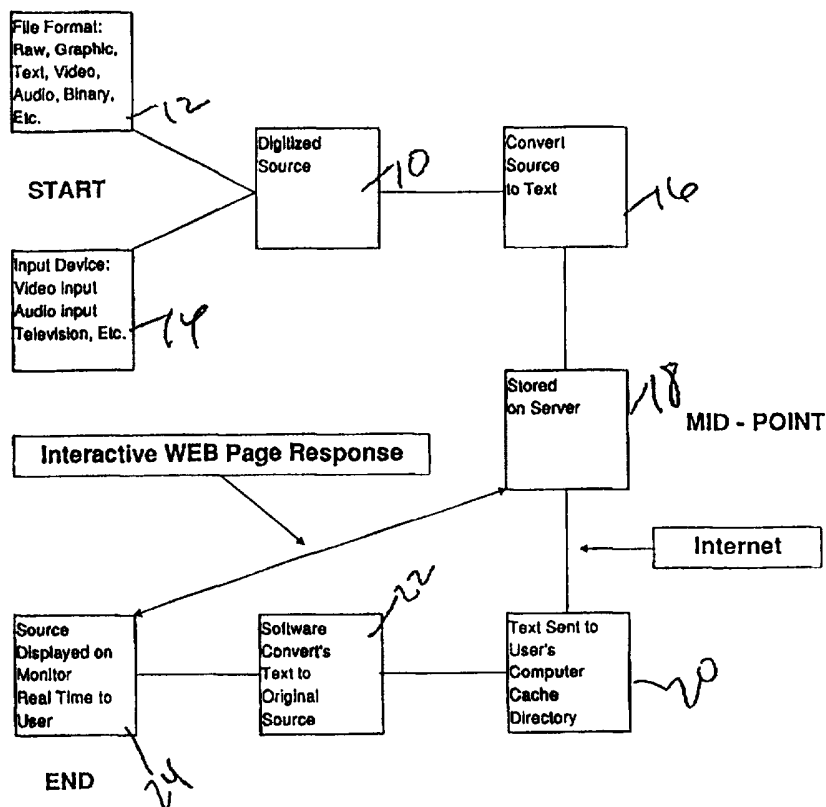


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(54) Title: METHOD OF TRANSMITTING VIDEO AND AUDIO DATA OVER THE INTERNET**(57) Abstract**

A method (figures 2 and 3) of transmitting video image (12, 14) and/or audio data (12, 14) over the Internet (Internet figure 1) in a faster manner and with greater quality than hitherto possible, and without the use of the E-mail system on the Internet (Internet figure 1). The method of the invention includes transmitting video (12, 14) and/or audio (12, 14) over the Internet (Internet figure 1) by encoding (16) the binary data (10) representing the video (12, 14) and/or audio (12, 14) to be transmitted in text format, such as seven-digit ASCII code, which encoded data is then sent to the local server (18) of the local web of the Internet (Internet figure 1). The local server (18) then establishes a point-to-point socket-connection between the transmitting host computer (10, 12, 14, 16) and the receiving or end-user computer, (20, 22, 24) thereby avoiding any E-mail associated logjams.



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METHOD OF TRANSMITTING VIDEO AND AUDIO DATA OVER THE INTERNET

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BACKGROUND OF THE INVENTION

The present invention is directed to a method of transmitting video and/or audio information over the "Internet".

The Internet is a conglomeration of computer networks that are linked together. Each network of the Internet may have one or more servers, and an operating system that may be different from that of others in the Internet. To link one network to another, and in order to overcome these operating differences between computer networks, the Internet system utilizes hardware and software devices called: Bridges, routers, and gateways, all of which adapt the information being sent on one network to the operating and protocol requirements of the receiving network. For example, a gateway will connect, or "splice" a network operating on the Novell protocol to a network that operates on a DECnet or SNA protocol.

There are currently more than 10,000 computer networks that are linked together, worldwide, which together constitute the "Internet". Because they do not all operate on the same operating system, and because of different protocols, the data sent from one host computer of one network to a receiving computer of another network, which may be many thousands of miles away from the host computer, may take a relatively long time, since the gateways, bridges and routers must conform or adapt the protocol of the sending host computer to the receiving computer's protocol.

In addition to the time-delays associated with protocol variances, the Internet has a maximum data-transmission capacity of 1.8 bytes per second, which is not enough for sending video images in real time.

The Internet system utilizes two types of file-transfer protocols (FTP) for copying a file from a host computer to the receiving computer: ASCII and binary. An ASCII file is a text file, while every other kind of file is binary. ASCII files are transmitted in seven-digit ASCII codes, while the binary files are transmitted in binary code. Because all data stored in computer memory is stored in binary format, when one sends a file in the Internet, it is sent in binary format. However, as discussed above, owing to the data-transmission constraints imposed by the Internet system because of the differing operating systems, and

multitude of gateways, routers, and bridges, the file data must be sent out in packets of a size no greater than 1536 bytes. Since the size of just a thirty-second video may be as great as 2.5 megabytes, it may take up to one-half hour or more to send a thirty-second video over the Internet from a host computer to a receiving computer. Presently, there are compression techniques that compress the files in order to reduce this playback-time, which data is decompressed at the receiving computer. An example of such a system is VDOLive, manufactured by VDonet Corp. of Santa Clara, California. However, these compression-systems still send the data in binary format, requiring packet-data sizes of no greater than 1536 bytes. Thus, even with these compression-systems, the length of time to receive a thirty-second video over the Internet after being buffered in the user's computer is near real time, but is unstable, choppy and drops as much as 96% of the video data over a conventional phone line.

In the Internet, there is an electronic-mail delivery system called E-mail. The E-mail system utilizes addresses to direct a message to the recipient, with each address having a mailbox code and a daemon, with the mail box and daemomn being separated by the symbol @. In the E-mail delivery system, all of the messages or "mail" are routed through selected routers and gateways, until it reaches what may be called a "post office" that services the recipient to whom the electronic mail is to be delivered. The "post office" is a local server. The need for these local "post

offices" is because there is every reason to assume that the recipient-computer, to which the mail is being sent, is either not powered up, or is performing a different task. Since most computers in the Internet are not multi-tasking machines, such as, for example, computers running on the DOS operating system, if such a computer is engaged with performing a task, it is not possible for it to receive the E-mail data at that time. Thus, the local "post office" or server stores the message until such a time as it may be delivered to the end-user to whom it is intended.

In the E-mail system, there has really been only one format standard for Internet messages. A variation has been the MIME version, which stands for Multipurpose Internet Mail Extensions, which defines a new header-field, which is intended for use to send non-text messages, such as multimedia messages that might include audio or images, by encoding the binary into seven-digit ASCII code. Before MIME, the limitation of E-mail systems was the fact that they limit the contents of electronic mail messages to relatively short lines of seven-bit ASCII. This forced users to convert any non-textual data that they may wish to send into seven-bit bytes representable as printable ASCII characters before invoking a local mail UA (User Agent, a program with which human users send and receive mail). Examples of such encodings currently used in the Internet include pure hexadecimal, uuencoded, the 3-in-4 base 64 scheme specified in RFC 1421, the Andrew

Toolkit Representation [ATK], and many others. Even though a user's UA may not have the capability of dealing with the non-textual body part, the user might have some mechanism external to the UA that can extract useful information from the body part. Moreover, it does not allow for the fact that the message may eventually be gatewayed back into an X.400 message handling system (i.e., the X.400 message is "tunneled" through Internet mail), where the non-textual information would definitely become useful again. With MIME, video and/or audio data may be sent using the E-mail system. MIME uses a number of header-fields, such as "Content-Type" header field, which can be used to specify the type and subtype of data in the body of a message and to fully specify the native representation (encoding) of such data; "text" Content-Type value header field, which can be used to represent textual information in a number of character sets and formatted text description languages in a standardized manner; "multipart" Content-Type value, which can be used to combine several body parts, possibly of differing types of data, into a single message; "application" Content-Type value, which can be used to transmit application data or binary data, and hence, among other users, to implement an electronic mail file transfer service; "message" Content-Type value, for encapsulating another mail message; "image" Content-Type value, for transmitting still image (picture) data; "audio" Content-Type value, for transmitting audio or voice data; "video" Content-Type value, for trans-

mitting video or moving image data, possibly with audio as part of the composite video data format; "Content-Transfer-Encoding" header field, which can be used to specify an auxiliary encoding that was applied to the data in order to allow it to pass through mail transport mechanisms which may have data or character set limitations. Two additional header fields may be used to further describe the data in a message body: The "Content-ID" and "Content-Description" header fields.

However, there are considerable drawbacks and deficiencies in transmitting video images and/or audio data over the Internet using E-mail's MIME. Firstly, there is oftentimes considerable time delays, such that it may take up to ten or more minutes to send a thirty-second video clip over the E-mail system. In times of high-traffic usage, the delay may even be more than ten minutes. Secondly, the video image or audio data cannot be viewed or listened to by the end-user, or recipient, until all of the data of the entire video or audio file has been received by the receiving computer, which, also, adds a considerable time lag to the actual viewing or listening. Thirdly, the end-user or recipient computer must have the necessary E-mail and MIME software for decoding the data. Fourthly, since MIME is an E-mail protocol system, the data is transmitted via the E-mail system, meaning that it is routed through one or more post offices and servers, which delay the transmission of the data, and which require that no other task be performed by the receiving computer if it is a

single-tasking machine, like DOS-operating system machines. Fifthly, like all E-mail deliveries, the requisite E-mail software at the recipient computer must decode the encoded data received, and then cut-and-paste the data into a new file, such as NOTEPAD, which is time-consuming, before the new file is played back by a viewer or player.

SUMMARY OF THE INVENTION

It is the primary objective of the present invention to provide video imaging and/or audio data over the Internet WAN/LAN system in a faster manner, and with greater quality than hitherto possible.

It is another objective of the present invention to provide such video imaging, with or without audio, such that the use of the E-mail system on the Internet is entirely obviated.

It is another objective of the present invention to provide such video imaging, with or without audio, such that the data representing the video and/or audio is streamed and transmitted as bursts of ASCII data.

Toward these and other ends, the method of the invention for transmitting video and/audio over the Internet consists of encoding the binary data representing the video and/or audio to be transmitted into text format, such as seven-digit ASCII code, which encoded data is then sent to the local server of the local web of the Internet. The local server then establishes a

point-to-point socket-connection between the transmitting, host computer, and the receiving or end-user computer, thereby avoiding any E-mail associated logjams. In addition, since the data is sent out as text data, such as seven digit ASCII, the data may be sent out as bursts, rather than using packet streams, which means that the data need not be packetized, thus saving a considerable amount of transmission time, and utilizing the entire bandwidth of that socket connection and avoiding checksum (data integrity checks) imposed by transmission systems on the transmission of packetized data.

BRIEF DESCRIPTION OF THE DRAWING

The invention will be more readily understood with reference to the accompanying drawing, wherein:

Figure 1 is a block diagram showing the socket-to-socket connection for transmitting video images and audio data over the Internet from a host computer to a recipient or end-user computer;

Figure 2 is a block diagram showing the encoding of the video and audio data at the host computer; and

Figure 3 is a a block diagram showing the decoding of the video and audio data at the receiving computer.

DETAILED DESCRIPTION OF THE INVENTION

Referring now to the drawings in greater detail, and to Fig. 1 for now, video images and/or audio are converted from analogue to digital and stored in computer memory in digitized format (block 10). Such digitized format may be existing computer memory files (block 12) that are already in binary format, or may be original files originated by recording the video and/or audio, as by a camcorder or tape, etc., and converting the analogue signals into digital, or binary, code (block 14). In the case of originating files, the analogue data may be converted to digital data using an INTEL "Smart Video Recorder Pro", for example. The raw binary data that is stored in computer memory (block 10) is then converted and encoded into text format, such as seven-digit ASCII code (block 16), and then sent to the local server (block 18) of the web of which the host-computer, at which the video and audio files stored. From the local server, the data is sent out directly over the Internet to the end-user, and in particular to the cache directory of the end-user computer (block 20). There, the encoded, text formatted data is decoded (block 22), and the data used and played back (block 24). Since the data is being sent as encoded text-formatted data, the hithertofore band-width constraints imposed by the Internet system to the transmission of video and audio data by packets of binary data is obviated, and, moreover, since the text data is being sent as a direct

socket-to-socket connection between the host, sending computer and the receiving, end-user computer, and not through the dedicated E-mail route with its associated daemons, dedicated servers and post offices, the text-formatted encoded data is transmitted directly to the end-user computer. However, as will be explained hereinbelow, since the text-formatted data is not being sent via the E-mail path, the end-user computer must be equipped with what may be termed a "catcher", which will ensure that the received encoded data is placed safely in a cache directory, and not allowed to be otherwise scattered among many directories, and, thereby, be irretrievably lost, such a "catcher" not being necessary if the text data had been delivered via an E-mail delivery system, such as MIME.

Referring to Fig. 2, at the host-computer end, the raw analogue data is digitized (block 30), as explained above. The data is then "split" into one-second AVI's (audio-video interleaves) (block 32), as by an Adobe Premier 4.0, and, then, the binary code is encoded from binary to text format such ASCII (block 34). Preferably, the encoding from binary to text is achieved utilizing an encoding program called UUEncode by Snappy Inc. created by George Silva (block 34). This encoding will create a header of about 50K comprising all of the necessary information necessary to the video and/or audio data, as is well-known in the art. Then, the encoded data is sent to the local web server (block 36) in order to be sent out over the Internet, and

then to the end-user computer.

Figure 3 shows the steps involved when the data is received by the receiving or end-user computer (block 40). As soon as the socket-to-socket connection is made between the host, or sending, computer and the receiving, or end-user, computer, the local server of the sending computer's web of the Internet sends the data to the receiving data over the Internet, which means that any number of local servers and gateways and routers will have been involved in transmitting the data, until it finally arrives at the local server serving the web associated with the receiving, or end user, computer (block 42). As soon as this socket-to-socket connection is made, the encoded text-formatted data is sent, at a rate of about 1.9 bytes a second. The receiving computer has a program that may be called a "catcher" for "catching" or seizing the transmitted data as it being received (block 44). The catcher is a software program that will direct the incoming data to a specific location in the cache directory of the computer (block 46), so that the data will not be lost. The catcher is necessary, since, if it were not present, it is the "nature" of personal computers to randomly dump data which has not had a specific destination assigned to it. Thus, without the catcher, the incoming data would be strewn into a different directory and/or sub-directories, to thus be irretrievably lost, for the player. As soon as the encoded header arrives and stored in the cache directory, the program entitled "player" in the receiving

computer begins to decode the text-formatted data, in order to re-generate the original binary code (block 48), from which the data passes to a conventional digital-to-analogue converter, in order to play the video or audio (block 50). It is noted, and emphasized, that as soon as the header has been decoded, the video and/or audio data is immediately "played" back by the digital-to-analogue converter. That is, it is not necessary to wait until the entire video or audio file has been received and stored in memory at the receiving computer until it can be started to be played, but rather the video and/or audio is started as soon as the header has been decoded and the initial raw data decoded, even though there may be only a fraction of the entire data file received by the receiving computer. This is in contrast to the MIME-generated video or audio sent out over the E-mail system, which, among other drawbacks and deficiencies, requires that the entire data file be received and processed before playing back.

The following is the software code listing for the server for the host-computer's web for bursting the encoded data through the Internet.

SENDFILE.C

```

#!/usr/sbin/perl
# Get the input
read(STDIN, $buffer, $ENV{'CONTENT_LENGTH'});

# Split the name-value pairs
@pairs = split(/&/, $buffer);

foreach $pair (@pairs)
{
    ($name, $value) = split(/=/, $pair);

    # UN-Webify plus signs and %-encoding
    $value =~ tr/+//;
    $value =~ s/%([a-fA-F0-9][a-fA-F0-9]) /pack("C", hex($1)) /eg;

    $FORM{$name} = $value;
}

# Location of the CMC files
$CMCDIR = '/UL/people/CMC/' . $FORM{'dir'};

# If the $CMCDIR director is not found, exit
if ( ! -d "$CMCDIR" )
{
    &Error("$CMCDIR not found on this system. Please check the path and try again\n");
}

# If there are no files in the CMC directory no point trying to transfer files
else
{
    opendir( $THISDIR, "$CMCDIR" );
    @allfiles = grep(/\.CMC/, readdir($THISDIR));
    if ( ! @allfiles ) {
        &Error("There are currently no CMC files in this directory. Try again later."); }

    sort @allfiles;
}

print ("HTTP/1.0 200\n");
print ("Content-type: multipart/x-mixed-replace;boundary=---ThisRandomString---\n\n");
print ("---ThisRandomString---\n");

#Send the First file with .IVD extension which invokes IVIDEO.EXE

print "Content-type: application/x-IVD\n\n";
$CONTENT = `cat $CMCDIR/CMC001.IVD`;
print $CONTENT;
print ("\n---ThisRandomString---\n");

```

```
# Now send rest of the .CMC files which would call filchd1.exe
while (@allfiles)
```

```
{
    $file = shift @allfiles;
    print "Content-type: application/x-CMC\n\n";
    print "$file\n";
    $CONTENT = `cat $CMCDIR/$file`;
    print $CONTENT;
    print ("\n—ThisRandomString—\n");
}
```

```
# Subroutine that tells whats wrong
sub Error
```

```
{
    print ("Content-type: text/html\n\n");
    print ("<Title> Error</Title>\n");
    print ("<H1> Error: </H1> <p>\n");
    print (@_);
    print ("<p> <p> <hr> <a href=\"mailto:cmcinter\@suba.com\"> Contact webmaster </a>");
    exit 0;
}
```

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The following is the software code listing at the host-computer for encoding the binary data into seven-digit ASCII text format, and is also the software code listing for the "player", or decoder, at each receiving, or end-user, computer, for decoding the encoded text format back into binary:

HOOK_MENU1 MENU LOADONCALL MOVEABLE DISCHARDABLE

```
{
  POPUP "&File"
  {
    MENUITEM "&Encode...", 1169
    MENUITEM "&Decode...", 1170
  }

  POPUP "&Actions"
  {
    MENUITEM "&Concatenate Files...", 1171
    MENUITEM "&View A Report File...", 1172
    MENUITEM "C&lean Directories...", 1173
    MENUITEM SEPARATOR
    MENUITEM "&Display Wincode Task", 1174
    MENUITEM "&Hide Wincode Task", 1175
  }

  POPUP "&Options"
  {
    MENUITEM "&Encode...", 1176
    MENUITEM "&Decode...", 1177
    MENUITEM "&Wincode...", 1178
    MENUITEM "&Winsort...", 1179
    MENUITEM SEPARATOR
    MENUITEM "&Viewer...", 1180
    MENUITEM SEPARATOR
    MENUITEM "&ZIP/UNZIP...", 1181
    MENUITEM SEPARATOR
    MENUITEM "&Hook App...", 1182
  }

  POPUP "&Help"
  {
    MENUITEM "&Contents", 1183
    MENUITEM "&Search for Help on...", 1184
    MENUITEM "&How to Use Help", 1185
    MENUITEM "&Wincode FAQ", 1186
    MENUITEM "C&opyrights", 1187
    MENUITEM SEPARATOR
    MENUITEM "O&rdering the Help file...", 1188
    MENUITEM SEPARATOR
    MENUITEM "&About Wincode...", 1189
  }
  MENUITEM SEPARATOR
  MENUITEM "&UnHook Wincode", 1190
  MENUITEM SEPARATOR
}
```

```

MENUITEM "E&xit Wincodc", 1191
}
HOOK_MENU2 MENU LOADONCALL MOVEABLE DISCARDABLE
{
  POPUP "&File"
  {
    MENUITEM "&Encodc...", 2269
    MENUITEM "&Decodc...", 2270
  }

  POPUP "&Actions"
  {
    MENUITEM "&Concatenatc Files...", 2271
    MENUITEM "&View A Report File...", 2272
    MENUITEM "C&lean Directories...", 2273
    MENUITEM SEPARATOR
    MENUITEM "&Display Wincodc Task", 2274
    MENUITEM "&Hide Wincodc Task", 2275
  }

  POPUP "&Options"
  {
    MENUITEM "&Encodc...", 2276
    MENUITEM "&Decodc...", 2277
    MENUITEM "&Wincodc...", 2278
    MENUITEM "&Winsort...", 2279
    MENUITEM SEPARATOR
    MENUITEM "&Viewer...", 2280
    MENUITEM SEPARATOR
    MENUITEM "&ZIP/UNZIP...", 2281
    MENUITEM SEPARATOR
    MENUITEM "&Hook App...", 2282
  }

  POPUP "&Help"
  {
    MENUITEM "&Contents", 2283
    MENUITEM "&Search for Help on...", 2284
    MENUITEM "&How to Use Help", 2285
    MENUITEM "&Wincodc FAQ", 2286
    MENUITEM "C&opyrights", 2287
    MENUITEM SEPARATOR
    MENUITEM "O&rdering the Help file...", 2288
    MENUITEM "&About Wincodc...", 2289
  }
  MENUITEM SEPARATOR

```

```

MENUITEM "&UnHook Wincodc", 2290
MENUITEM SEPARATOR
MENUITEM "E&xit Wincodc", 2291
}
HOOK_MENU3 MENU LOADONCALL MOVEABLE DISCARDABLE
(
  POPUP "&File"
  {
    MENUITEM "&Encode...", 3369
    MENUITEM "&Decode...", 3370
  }

  POPUP "&Actions"
  {
    MENUITEM "&Concatenate Files...", 3371
    MENUITEM "&View A Report File...", 3372
    MENUITEM "C&lean Directories...", 3373
    MENUITEM SEPARATOR
    MENUITEM "&Display Wincodc Task", 3374
    MENUITEM "Hide Wincodc Task", 3375
  }

  POPUP "&Options"
  {
    MENUITEM "&Encode...", 3376
    MENUITEM "&Decode...", 3377
    MENUITEM "&Wincodc...", 3378
    MENUITEM "&Winsort...", 3379
    MENUITEM SEPARATOR
    MENUITEM "&Viewer...", 3380
    MENUITEM SEPARATOR
    MENUITEM "&ZIP/UNZIP...", 3381
    MENUITEM SEPARATOR
    MENUITEM "&Hook App...", 3382
  }

  POPUP "&Help"
  {
    MENUITEM "&Contents", 3383
    MENUITEM "&Search for Help on...", 3384
    MENUITEM "&How to Use Help", 3385
    MENUITEM "&Wincodc FAQ", 3386
    MENUITEM "C&opyrights", 3387
    MENUITEM SEPARATOR
    MENUITEM "O&rdering the Help file...", 3388
    MENUITEM SEPARATOR
    MENUITEM "&About Wincodc...", 3389
  }

```

```

MENUITEM SEPARATOR
MENUITEM "&UnHook Wincodc", 3390
MENUITEM SEPARATOR
MENUITEM "E&xit Wincodc", 3391
}
HOOK_WORKING DIALOG LOADONCALL MOVEABLE DISCARDABLE 100, 89, 141, 55
STYLE WS_POPUP | WS_VISIBLE | WS_CAPTION
CAPTION "Wincodc Working..."
FONT 8, "MS Sans Serif"
{
LTEXT "", 103, 81, 19, 27, 8
LTEXT "", 102, 81, 9, 27, 8
PUSHBUTTON "&Stop", 104, 18, 37, 45, 13
PUSHBUTTON "&Quit", 105, 78, 37, 45, 13
RTEXT "Total Job:", -1, 12, 19, 66, 8
CONTROL "", -1, "STATIC", SS_BLACKFRAME | WS_CHILD | WS_VISIBLE, 6, 6, 129, 25
RTEXT "", 101, 12, 9, 66, 8
}
BASE64_TYPE DIALOG LOADONCALL MOVEABLE DISCARDABLE 71, 26, 123, 181
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
FONT 8, "MS Sans Serif"
{
DEFPUSHBUTTON "OK", 1, 12, 163, 45, 13
RADIOBUTTON "Application: &Octet-Stream:", 301, 12, 19, 99, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
RADIOBUTTON "Application: &Postscript:", 302, 12, 34, 99, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
RADIOBUTTON "Image: &JPEG", 303, 12, 49, 99, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
RADIOBUTTON "Image: &GIF", 304, 12, 64, 99, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
RADIOBUTTON "Image: &X-BMP", 305, 12, 79, 99, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
RADIOBUTTON "Video: &MPEG", 306, 12, 94, 99, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
RADIOBUTTON "Audio: X-&WAV", 307, 12, 109, 99, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
PUSHBUTTON "Cancel", 2, 66, 163, 45, 13
GROUPBOX "Content-Type", 101, 6, 5, 111, 152, BS_GROUPBOX | WS_GROUP
}
DESC_TEXT DIALOG LOADONCALL MOVEABLE DISCARDABLE 9, 50, 288, 138
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Descriptive Text will be added to first Encoded file..."
FONT 8, "MS Sans Serif"
{
EDITTEXT 201, 6, 6, 276, 108, ES_MULTILINE | ES_AUTOVSCROLL | ES_WANTRETURN
| WS_BORDER | WS_VSCROLL | WS_TABSTOP
DEFPUSHBUTTON "OK", 1, 69, 120, 60, 13
PUSHBUTTON "Cancel", 2, 159, 120, 60, 13
}
DIR_SELECT DIALOG LOADONCALL MOVEABLE DISCARDABLE 15, 20, 147, 116
STYLE DS_MODALFRAME | WS_OVERLAPPED | WS_CAPTION | WS_SYSMENU
FONT 8, "Helv"

```

```

{
EDITTEXT 101, 42, 5, 98, 12, ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP
DEFPUSHBUTTON "OK", 1, 88, 22, 50, 14
LISTBOX 103, 6, 30, 64, 82, LBS_STANDARD | WS_TABSTOP
PUSHBUTTON "Cancel", 2, 88, 41, 50, 14
LTEXT "D&irectories:", -1, 6, 18, 64, 10
LTEXT "&Directory:" -1, 6, 6, 36, 10
}
EXISTS DIALOG LOADONCALL MOVEABLE DISCARDABLE 41, 34, 177, 54
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Wincode - Output File"
FONT 8, "MS Sans Serif"
{
PUSHBUTTON "&Overwrite", 1, 9, 36, 45, 13
PUSHBUTTON "&Rename", 101, 66, 36, 45, 13
PUSHBUTTON "&Skip File", 2, 123, 36, 45, 13
CTEXT "", 102, 21, 15, 135, 8
CONTROL "", "STATIC", SS_BLACKFRAME | WS_CHILD | WS_VISIBLE, 15, 6, 147, 21
}
FILE OPEN DIALOG LOADONCALL MOVEABLE DISCARDABLE 40, 20, 202, 130
STYLE DS_MODALFRAME | WS_OVERLAPPED | WS_CAPTION | WS_SYSMENU
FONT 8, "Helv"
{
EDITTEXT 100, 42, 6, 98, 12, ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP
DEFPUSHBUTTON "OK", 1, 146, 5, 50, 14
LISTBOX 102, 6, 44, 64, 82, LBS_STANDARD | WS_TABSTOP
LISTBOX 103, 76, 44, 64, 82, LBS_STANDARD | WS_TABSTOP
PUSHBUTTON "Cancel", 2, 146, 23, 50, 14
LTEXT "File&name:", -1, 6, 8, 36, 10
LTEXT "Directory:", -1, 6, 20, 36, 10
LTEXT "", 101, 42, 20, 98, 10
LTEXT "&Files:", -1, 6, 32, 64, 10
LTEXT "&Directories:", -1, 76, 32, 64, 10
}
RENAME DIALOG LOADONCALL MOVEABLE DISCARDABLE 34, 31, 199, 57
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
FONT 8, "MS Sans Serif"
{
EDITTEXT 102, 6, 21, 171, 12 ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP
PUSHBUTTON "?", 103, 180, 20, 12, 13
DEFPUSHBUTTON "OK", 1, 42, 39, 45, 13
PUSHBUTTON "Cancel", 2, 111, 39, 45, 13
LTEXT "Enter a VALID DOS filename:", 104, 6, 6, 159, 9
}
VIEW_RPT DIALOG LOADONCALL MOVEABLE DISCARDABLE 20, 43, 300, 154
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Wincode - Report File Viewer"
FONT 8, "MS Sans Serif"

```

```
{  
DEFPUSHBUTTON "OK", 2, 111, 135, 78, 13  
EDITTEXT 101, 6, 15, 288, 99, ES_MULTILINE | ES_READONLY | WS_BORDER | WS_VSCROLL | WS_HSCROLL | WS_TABSTOP  
CHECKBOX "&Delete Report File After Viewing", 103, 6, 117, 138, 12, BS_AUTOCHECKBOX | WS_TABSTOP  
LTEXT "File:", -1, 7, 5, 15, 8  
LTEXT "", 102, 25, 5, 270, 8  
}
```

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The following is the software code listing at each receiving, or end-user, computer, for the catcher:

MAIN_MENU MENU LOADONCALL MOVEABLE DISCARDABLE

```
{
  POPUP "&File"
  {
    MENUITEM "&Encode...", 101
    MENUITEM "&Decode...", 102
    MENUITEM SEPARATOR
    MENUITEM "E&xit", 1
  }

  POPUP "&Actions"
  {
    MENUITEM "&Concatenate Files...", 103
    MENUITEM "&View a Report File...", 104
    MENUITEM "C&lean Directories...", 105
    MENUITEM SEPARATOR
    MENUITEM "&Interactive Drag/Drop", 121
    MENUITEM SEPARATOR
    MENUITEM "Hook Wincodc", 122
  }

  POPUP "&Options"
  {
    MENUITEM "&Encode...", 106
    MENUITEM "&Decode...", 107
    MENUITEM "&Wincodc...", 108
    MENUITEM "W&insort...", 109
    MENUITEM SEPARATOR
    MENUITEM "&Viewer...", 110
    MENUITEM SEPARATOR
    MENUITEM "&ZIP/UNZIP...", 111
    MENUITEM SEPARATOR
    MENUITEM "&Hook App...", 112
  }

  POPUP "&Help"
  {
    MENUITEM "&Contents", 113
```

```

MENUITEM "&Search for Help on...", 114
MENUITEM "&How to Use Help", 115
MENUITEM "&Wincode FAQ", 116
MENUITEM "C&opyrights", 117
MENUITEM SEPARATOR
MENUITEM "O&rdering the Help file...", 118
MENUITEM SEPARATOR
MENUITEM "&About Wincode...", 119
}

{
ABOUT_DIALOG_LOADONCALL_MOVEABLE_DISCARDABLE 76, 55, 135, 141
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "About CMCCODE"
FONT 8, "MS Sans Serif" .
{
DEFPUSHBUTTON "OK", 2, 14, 123, 45, 13
PUSHBUTTON "More...", 1, 74, 123, 45, 13
CTEXT "CMCCODE:", -1, 45, 9, 45, 8
CTEXT "Video Encoder/Decoder", -1, 10, 18, 114, 8
CTEXT "for the Internet", -1, 34, 27, 66, 8
CTEXT "Copyright\xA9 1993,1994", -1, 24, 72, 87, 8
CTEXT "Snappy_Inc.", -1, 44, 63, 45, 8
CONTROL "", -1, "STATIC", SS_BLACKFRAME | WS_CHILD | WS_VISIBLE, 6, 6, 123, 111
CTEXT "Version 1.0", -1, 40, 37, 54, 8
CTEXT "Developers Kit Provided by:", -1, 17, 49, 101, 8
CTEXT "created by Caesar Collazo", -1, 18, 82, 99, 8
CTEXT "cmcinter@suba.com", -1, 12, 103, 111, 8
CTEXT "Questions...Comments...e-mail to:", -1, 9, 93, 117, 8
CONTROL "", -1, "STATIC", SS_BLACKFRAME | WS_CHILD | WS_VISIBLE, 12, 47, 111, 1
CONTROL "", -1, "STATIC", SS_BLACKFRAME | WS_CHILD | WS_VISIBLE, 12, 59, 111, 1
}
ALL_ONE_DIALOG_LOADONCALL_MOVEABLE_DISCARDABLE 35, 31, 132, 60
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "CMCCODE - Encode Filename"
FONT 8, "MS Sans Serif"
{
EDITTEXT 101, 28, 23, 75, 12, ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP

```

```

DEFPUSHBUTTON "OK", 1, 12, 42, 45, 13
PUSHBUTTON "Cancel", 2, 75, 42, 45, 13
CTEXT "Enter a filename for ALL the files:", -1, 6, 7, 120, 9
)
BASE64_MODE DIALOG LOADONCALL MOVEABLE DISCARDABLE 93, 54, 111, 69
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "BASE64 Method"
FONT 8, "MS Sans Serif"
{
DEFPUSHBUTTON "OK", 1, 6, 51, 45, 13
RADIOBUTTON "&MIME Conformant", 323, 12, 10, 87, 12, BS_AUTORADIOBUTTON | WS_GROUP | WS_TABSTOP
RADIOBUTTON "&Raw BASE 64", 324, 12, 25, 87, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
PUSHBUTTON "Cancel", 2, 60, 51, 45, 13
GROUPBOX "", 106, 6, 2, 99, 42, BS_GROUPBOX
}
CHOOSE_V DIALOG LOADONCALL MOVEABLE DISCARDABLE 15, 20, 174, 78
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Select a Report File Viewer"
FONT 8, "MS Sans Serif"
{
DEFPUSHBUTTON "OK", 1, 36, 60, 45, 13
RADIOBUTTON "&Wincode Internal File Viewer (32K Max.)", 701, 12, 10, 150, 12, BS_AUTORADIOBUTTON | WS_GROUP | WS_TABSTOP
RADIOBUTTON "Windows &Notepad", 702, 12, 24, 150, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
RADIOBUTTON "&Other:", 703, 12, 38, 33, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
EDITTEXT 704, 48, 38, 102, 12, ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP
PUSHBUTTON "?", 705, 153, 38, 12, 13
PUSHBUTTON "Cancel", 2, 93, 60, 45, 13
GROUPBOX "", 101, 6, 2, 162, 54, BS_GROUPBOX
}
CLEAN_DIR DIALOG LOADONCALL MOVEABLE DISCARDABLE 52, 51, 228, 162
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Clean Directories"
FONT 8, "MS Sans Serif"
{
DEFPUSHBUTTON "OK", 1, 92, 143, 45, 13
CHECKBOX "", 601, 12, 19, 192, 12, BS_AUTOCHECKBOX | WS_TABSTOP
PUSHBUTTON "?", 605, 207, 19, 12, 13

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CHECKBOX "", 602, 12, 34, 192, 12, BS_AUTOCHECKBOX | WS_TABSTOP
PUSHBUTTON "?", 606, 207, 34, 12, 13
CHECKBOX "", 603, 12, 49, 192, 12, BS_AUTOCHECKBOX | WS_TABSTOP
PUSHBUTTON "?", 607, 207, 49, 12, 13
CHECKBOX "", 604, 12, 64, 192, 12, BS_AUTOCHECKBOX | WS_TABSTOP
PUSHBUTTON "?", 608, 207, 64, 12, 13
CHECKBOX "Empty the &Clipboard (release global memory)", 612, 12, 102, 192, 12, BS_AUTOCHECKBOX | WS_TABSTOP
PUSHBUTTON "?", 613, 207, 102, 12, 13
PUSHBUTTON "Clean &All Directories", 614, 12, 120, 96, 13
PUSHBUTTON "&Report Files Only (*.rpt)", 615, 120, 120, 96, 13
PUSHBUTTON "Cancel", 2, 165, 143, 45, 13
PUSHBUTTON "&Help", 611, 19, 143, 45, 13
GROUPBOX "Select Directories to Clean", 101, 7, 5, 216, 93, BS_GROUPBOX
LTEXT "Status:", -1, 12, 83, 27, 8
LTEXT "", 610, 42, 83, 177, 8
}
DEC_CONFIG_DIALOG_LOADONCALL_MOVEABLE_DISCARDABLE 26, 26, 250, 147
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Decode Options"
FONT 8, "MS Sans Serif"
{
DEFPUSHBUTTON "OK", 1, 195, 9, 45, 13
CHECKBOX "Du&mp Files", 301, 12, 9, 69, 12, BS_AUTOCHECKBOX | WS_TABSTOP
CHECKBOX "&Run Decoded", 302, 12, 21, 69, 12, BS_AUTOCHECKBOX | WS_TABSTOP
CHECKBOX "&Error Checking", 303, 87, 9, 72, 12, BS_AUTOCHECKBOX | WS_TABSTOP
CHECKBOX "Sort b&y Extension", 304, 87, 21, 72, 12, BS_AUTOCHECKBOX | WS_TABSTOP
PUSHBUTTON "E&xtension(s)...", 305, 6, 42, 66, 13
COMBOBOX 306, 120, 41, 42, 60, CBS_DROPDOWNLIST | WS_VSCROLL | WS_TABSTOP
EDITTEXT 307, 12, 70, 132, 9, ES_AUTOHSCROLL | NOT WS_BORDER | WS_TABSTOP
PUSHBUTTON "?", 308, 147, 67, 12, 13
RADIOBUTTON "Def&ault to location of Input file", 309, 12, 99, 132, 12, BS_AUTORADIOBUTTON | WS_GROUP | WS_TABSTOP
RADIOBUTTON "User select &on Decode", 310, 12, 112, 132, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
RADIOBUTTON "&Set:", 311, 12, 125, 27, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
EDITTEXT 312, 42, 125, 102, 12, ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP
PUSHBUTTON "?", 313, 147, 124, 12, 13
RADIOBUTTON "&Wincode select", 314, 174, 110, 66, 12, BS_AUTORADIOBUTTON | WS_GROUP | WS_TABSTOP
RADIOBUTTON "&User select", 315, 174, 125, 66, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
PUSHBUTTON "Cancel", 2, 195, 27, 45, 13

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PUSHBUTTON "&Defaults", 316, 195, 45, 45, 13
PUSHBUTTON "&Help", 317, 195, 63, 45, 13
GROUPBOX "Decoded File Name", 102, 168, 96, 75, 45, BS_GROUPBOX
LTEXT "Code Type:", -1, 78, 44, 39, 8
GROUPBOX "Decoded File Directory", 101, 6, 87, 156, 54, BS_GROUPBOX
CONTROL "", -1, "STATIC", SS_BLACKFRAME | WS_CHILD | WS_VISIBLE, 6, 6, 156, 30
GROUPBOX "Temp Directory", 103, 6, 59, 156, 24, BS_GROUPBOX
}
DEC_EXT_DIALOG LOADONCALL MOVEABLE DISCARDABLE 49, 30, 144, 133
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Decode File Extension(s)"
FONT 8, "MS Sans Serif"
{
EDITTEXT 318, 12, 25, 45, 12, ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP
PUSHBUTTON "&Add", 320, 12, 43, 45, 13
PUSHBUTTON "&Delete", 321, 12, 61, 45, 13
PUSHBUTTON "A&ssociate", 322, 12, 79, 45, 13
LISTBOX 319, 73, 26, 58, 69, LBS_NOTIFY | WS_BORDER | WS_BORDER | WS_VSCROLL
DEFPUSHBUTTON "OK", 1, 18, 115, 45, 13
PUSHBUTTON "Cancel", 2, 81, 115, 45, 13
LTEXT "Enter Decode Extension: (Max + 20)", -1, 12, 13, 120, 8
CONTROL "", -1, "STATIC", SS_BLACKFRAME | WS_CHILD | WS_VISIBLE, 6, 6, 132, 102
LTEXT "Ext. Count:", -1, 73, 95, 39, 8
LTEXT "", 323, 114, 95, 16, 8
}
DEL_FILES_DIALOG LOADONCALL MOVEABLE DISCARDABLE 63, 20, 78, 127
STYLE DS_MODALFRAME | WS_OVERLAPPED | WS_CAPTION | WS_SYSMENU
FONT 8, "Helv"
{
DEFPUSHBUTTON "OK", 2, 16, 108, 45, 13
LISTBOX 609, 7, 19, 64, 82, LBS_STANDARD | WS_TABSTOP
CTEXT "Files being deleted:", -1, 4, 7, 69, 10
}
DIR_SELECT_DIALOG LOADONCALL MOVEABLE DISCARDABLE 15, 20, 147, 116
STYLE DS_MODALFRAME | WS_OVERLAPPED | WS_CAPTION | WS_SYSMENU
FONT 8, "Helv"
{
EDITTEXT 101, 42, 5, 98, 12, ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP

```

```

DEFPUSHBUTTON "OK", 1, 88, 22, 50, 14
LISTBOX 103, 6, 30, 64, 82, LBS_STANDARD | WS_TABSTOP
PUSHBUTTON "Cancel", 2, 88, 41, 50, 14
LTEXT "D&irectories:", -1, 6, 18, 64, 10
LTEXT "&Directory:", -1, 6, 6, 36, 10
}
DONE_DIALOG LOADONCALL MOVEABLE DISCARDABLE 21, 32, 207, 54
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "CMCCODE - Done!"
FONT 8, "MS Sans Serif"
{
CTEXT "", 101, 12, 14, 184, 9
CONTROL "", -1, "STATIC", SS_BLACKFRAME | WS_CHILD | WS_VISIBLE, 6, 6, 195, 25
DEFPUSHBUTTON "OK", 2, 64, 36, 78, 13
}
DONE_SHOW_DIALOG LOADONCALL MOVEABLE DISCARDABLE 21, 32, 207, 54
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "CMCCODE - Done!"
FONT 8, "MS Sans Serif"
{
DEFPUSHBUTTON "OK", 2, 18, 36, 78, 13
PUSHBUTTON "&View Report File", 1, 111, 36, 78, 13
CTEXT "", 101, 12, 14, 184, 9
CONTROL "", -1, "STATIC", SS_BLACKFRAME | WS_CHILD | WS_VISIBLE, 6, 6, 195, 25
}
DRAGDROP_DIALOG LOADONCALL MOVEABLE DISCARDABLE 119, 85, 139, 110
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Interactive Drag & Drop"
FONT 8, "MS Sans Serif"
{
DEFPUSHBUTTON "OK", 1, 18, 92, 45, 13
RADIOBUTTON "&Encode", 802, 13, 39, 48, 12, BS_AUTORADIOBUTTON | WS_GROUP | WS_TABSTOP
RADIOBUTTON "&Decode", 803, 13, 53, 48, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
RADIOBUTTON "E&xt. Based", 804, 13, 67, 48, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
CHECKBOX "&Zip First", 805, 75, 39, 54, 12, BS_AUTOCHECKBOX | WS_TABSTOP
CHECKBOX "U&NZIP After", 806, 75, 53, 54, 12, BS_AUTOCHECKBOX | WS_TABSTOP
CHECKBOX "&Winsort First", 807, 75, 67, 54, 12, BS_AUTOCHECKBOX | WS_TABSTOP
PUSHBUTTON "Cancel", 2, 75, 92, 45, 13

```

```

GROUPBOX "Drop to:", 101, 7, 26, 57, 57, BS_GROUPBOX
GROUPBOX "Options:", 102, 70, 26, 63, 57, BS_GROUPBOX
COMBOBOX 801, 69, 7, 64, 66, CBS_DROPDOWNLIST | WS_VSCROLL | WS_TABSTOP
LTEXT "CMC Method:", -1, 6, 10, 60, 8
}
ENC_CONFIG_DIALOG LOADONCALL MOVEABLE DISCARDABLE 10, 23, 262, 189
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Encode Options"
FONT 8, "MS Sans Serif"
{
DEFPUSHBUTTON "OK", 1, 206, 9, 46, 13
CHECKBOX "&Line CheckSums", 201, 12, 9, 72, 12, BS_AUTOCHECKBOX | WS_TABSTOP
CHECKBOX "&File CheckSums", 202, 12, 24, 72, 12, BS_AUTOCHECKBOX | WS_TABSTOP
CHECKBOX "Fil&e Headers", 203, 12, 39, 72, 12
CHECKBOX "File Desc&ription", 204, 12, 54, 72, 12, BS_AUTOCHECKBOX | WS_TABSTOP
CHECKBOX "Des&criptive Name", 205, 12, 69, 72, 12, BS_AUTOCHECKBOX | WS_TABSTOP
CHECKBOX "I&nclude Table", 206, 90, 9, 72, 12, BS_AUTOCHECKBOX | WS_TABSTOP
CHECKBOX "Make E&MBL Files", 207, 90, 24, 72, 12
CHECKBOX "Sin&gle File", 208, 90, 39, 72, 12
CHECKBOX "All &In One File", 209, 90, 54, 72, 12
CHECKBOX "Number b&y Ext.", 210, 90, 69, 72, 12
EDITTEXT 211, 123, 90, 42, 12
EDITTEXT 212, 123, 107, 42, 12
RADIOBUTTON "Def&ault to location of input file", 213, 12, 138, 132, 12, BS_AUTORADIOBUTTON | WS_GROUP | WS_TABSTOP
RADIOBUTTON "User select &on Encode", 214, 12, 152, 132, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
RADIOBUTTON "&Set:", 215, 12, 166, 27, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
EDITTEXT 216, 42, 166, 105, 12, ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP
PUSHBUTTON "?", 217, 150, 166, 12, 13
COMBOBOX 218, 213, 90, 42, 57, CBS_DROPDOWNLIST | WS_VSCROLL | WS_TABSTOP
COMBOBOX 219, 213, 107, 42, 39, CBS_DROPDOWNLIST | WS_VSCROLL | WS_TABSTOP
RADIOBUTTON "&Wincode select", 220, 177, 148, 69, 12, BS_AUTORADIOBUTTON | WS_GROUP | WS_TABSTOP
RADIOBUTTON "&User select", 221, 177, 164, 69, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
PUSHBUTTON "Cancel", 2, 206, 27, 46, 13
PUSHBUTTON "&Default", 222, 206, 45, 46, 13
PUSHBUTTON "&Help", 223, 206, 63, 46, 13
CONTROL "", -1, "STATIC", SS_BLACKFRAME | WS_CHILD | WS_VISIBLE, 6, 6, 159, 78
LTEXT "Bytes per File (Lines/File):", 103, 6, 93, 114, 8
LTEXT "Extension for Encoded Files:", 104, 6, 110, 108, 8

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GROUPBOX "Encoded File Name", 102, 171, 132, 84, 51, BS_GROUPBOX
GROUPBOX "Encoded File Directory", 101, 6, 123, 159, 60, BS_GROUPBOX
LTEXT "Code Type:", 105, 171, 93, 39, 8
LTEXT "File Type:", -1, 171, 110, 39, 8
}
EXT_INFO DIALOG LOADONCALL MOVEABLE DISCARDABLE 76, 55, 207, 111
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "More About CMCCODE"
FONT 8, "MS Sans Serif"
{
DEFPUSHBUTTON "OK", 2, 81, 93, 45, 13
CONTROL "", -1, "STATIC", SS_BLACKFRAME | WS_CHILD | WS_VISIBLE, 6, 6, 195, 81
CONTROL "", -1, "STATIC", SS_BLACKFRAME | WS_CHILD | WS_VISIBLE, 13, 57, 180, 1
LTEXT "CMCCODE Version:", -1, 15, 12, 72, 8
LTEXT "WCodeDLL Version:", -1, 15, 23, 72, 8
LTEXT "HookDLL Version:", -1, 15, 34, 72, 8
LTEXT "Release Date:", -1, 15, 45, 72, 8
LTEXT "Memory:", -1, 15, 62, 72, 8
LTEXT "System Resources:", -1, 15, 73, 72, 8
LTEXT "", 701, 90, 12, 105, 8
LTEXT "", 702, 90, 23, 105, 8
LTEXT "", 703, 90, 34, 105, 8
LTEXT "", 704, 90, 45, 105, 8
LTEXT "", 705, 90, 62, 105, 8
LTEXT "", 706, 90, 73, 105, 8
}
EXT_INFO DIALOG LOADONCALL MOVEABLE DISCARDABLE 76, 55, 207, 111
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "More About CMCCODE"
FONT 8, "MS Sans Serif"
{
DEFPUSHBUTTON "OK", 2, 81, 93, 45, 13
CONTROL "", -1, "STATIC", SS_BLACKFRAME | WS_CHILD | WS_VISIBLE, 6, 6, 195, 81
CONTROL "", -1, "STATIC", SS_BLACKFRAME | WS_CHILD | WS_VISIBLE, 13, 57, 180, 1
LTEXT "CMCCODE Version:", -1, 15, 12, 72, 8
LTEXT "WCodeDLL Version:", -1, 15, 23, 72, 8
LTEXT "HookDLL Version:", -1, 15, 34, 72, 8
LTEXT "Release Date:", -1, 15, 45, 72, 8

```

```

LTEXT "Memory:", -1, 15, 62, 72, 8
LTEXT "System Resources:", -1, 15, 73, 72, 8
LTEXT "", 701, 90, 12, 105, 8
LTEXT "", 702, 90, 23, 105, 8
LTEXT "", 703, 90, 34, 105, 8
LTEXT "", 704, 90, 45, 105, 8
LTEXT "", 705, 90, 62, 105, 8
LTEXT "", 706, 90, 73, 105, 8
}
FILE_O_ZIP DIALOG LOADONCALL MOVEABLE DISCARDABLE 40, 20, 202, 130
STYLE DS_MODALFRAME | WS_OVERLAPPED | WS_CAPTION | WS_SYSMENU
FONT 8, "Helv"
{
EDITTEXT 100, 42, 6, 98, 12, ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP
DEFPUSHBUTTON "OK", 1, 146, 5, 50, 14
LISTBOX 102, 6, 44, 64, 82, LBS_STANDARD | LBS_MULTIPLESEL | LBS_EXTENDEDSEL | WS_TABSTOP
LISTBOX 103, 76, 44, 64, 82, LBS_STANDARD | WS_TABSTOP
PUSHBUTTON "&All Files", 104, 146, 45, 50, 14
PUSHBUTTON "> > &Clipboard", 105, 146, 63, 50, 14
CHECKBOX "&ZIP First", 106, 146, 81, 51, 12, BS_AUTOCHECKBOX | WS_TABSTOP
PUSHBUTTON "Cancel", 2, 146, 23, 50, 14
LTEXT "File&name:", -1, 6, 8, 36, 10
LTEXT "Directory:", -1, 6, 20, 36, 10
LTEXT "", 101, 42, 20, 98, 10
LTEXT "&Files:", -1, 6, 32, 64, 10
LTEXT "&Directories:", -1, 76, 32, 64, 10
PUSHBUTTON "&Options...", 107, 146, 105, 50, 14
}
FILE_OPEN DIALOG LOADONCALL MOVEABLE DISCARDABLE 40, 20, 202, 130
STYLE DS_MODALFRAME | WS_OVERLAPPED | WS_CAPTION | WS_SYSMENU
FONT 8, "Helv"
{
EDITTEXT 100, 42, 6, 98, 12, ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP
DEFPUSHBUTTON "OK", 1, 146, 5, 50, 14
LISTBOX 102, 6, 44, 64, 82, LBS_STANDARD | WS_TABSTOP
LISTBOX 103, 76, 44, 64, 82, LBS_STANDARD | WS_TABSTOP
PUSHBUTTON "Cancel", 2, 146, 23, 50, 14
LTEXT "File&name:", -1, 6, 8, 36, 10

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```

LTEXT "Directory:", -1, 6, 20, 36, 10
LTEXT "", 101, 42, 20, 98, 10
LTEXT "&Files:", -1, 6, 32, 64, 10
LTEXT "&Directorics:", -1, 76, 32, 64, 10
}
HEADER_TYPE DIALOG LOADONCALL MOVEABLE DISCARDABLE 93, 54, 111, 81
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Header Type"
FONT 8, "MS Sans Serif"
{
DEFPUSHBUTTON "OK", 1, 6, 63, 45, 13
RADIOBUTTON "&Wincode Standard", 224, 12, 10, 87, 12, BS_AUTORADIOBUTTON | WS_GROUP | WS_TABSTOP
RADIOBUTTON "&MIME Conformant", 225, 12, 25, 87, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
PUSHBUTTON "Cancel", 2, 60, 63, 45, 13
GROUPBOX "", 106, 6, 2, 99, 54, BS_GROUPBOX
CHECKBOX "&Guess Content-Type", 226, 12, 40, 87, 12, BS_AUTOCHECKBOX | WS_TABSTOP
}
HOOK_APP DIALOG LOADONCALL MOVEABLE DISCARDABLE 10, 74, 277, 117
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Hook Application Options"
FONT 8, "MS Sans Serif"
{
DEFPUSHBUTTON "OK", 1, 222, 9, 45, 13
EDITTEXT 901, 75, 6, 135, 12, ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP
EDITTEXT 902, 75, 24, 120, 12, ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP
PUSHBUTTON "?", 903, 198, 24, 12, 13
CHECKBOX "&Case Sensitive Application Name", 904, 80, 45, 126, 12, BS_AUTOCHECKBOX | WS_TABSTOP
CHECKBOX "&Prompt for Application on Hook", 905, 80, 57, 126, 12, BS_AUTOCHECKBOX | WS_TABSTOP
CHECKBOX "H&ide Wincode when Hooked", 906, 80, 69, 126, 12, BS_AUTOCHECKBOX | WS_TABSTOP
CHECKBOX "&Auto-Hook Wincode on Startup", 907, 80, 81, 126, 12, BS_AUTOCHECKBOX | WS_TABSTOP
PUSHBUTTON "&Tunc...", 910, 222, 97, 45, 13
PUSHBUTTON "Cancel", 2, 222, 27, 45, 13
PUSHBUTTON "&Default", 908, 222, 45, 45, 13
PUSHBUTTON "&Help", 909, 222, 63, 45, 13
LTEXT "Application Name:", -1, 7, 10, 66, 8
LTEXT "Application Path:", -1, 7, 27, 66, 8
CONTROL "", -1, "STATIC", SS_BLACKFRAME | WS_CHILD | WS_VISIBLE, 75, 42, 135, 54
ICON "THOOK_ICON", -1, 27, 69, 18, 20

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LTEXT "Advanced Options:", -1, 7, 45, 66, 8
LTEXT "If you are having problems Hooking an application, try this --->", -1, 7, 100, 213, 8
}
HOOK_TUNE DIALOG LOADONCALL MOVEABLE DISCARDABLE 81, 74, 151, 96
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Hook Tuning"
FONT 8, "MS Sans Serif"
{
DEFPUSHBUTTON "OK", 1, 24, 78, 45, 13
CHECKBOX "&Create Window List on Hook", 911, 12, 11, 126, 12, BS_AUTOCHECKBOX | WS_TABSTOP
CHECKBOX "&Skip Opening Window", 912, 12, 25, 90, 12, BS_AUTOCHECKBOX | WS_TABSTOP
EDITTEXT 913, 108, 39, 30, 12
COMBOBOX 914, 108, 54, 30, 39, CBS_DROPDOWNLIST | WS_TABSTOP
PUSHBUTTON "Cancel", 2, 81, 78, 45, 13
CONTROL "", -1, "STATIC", SS_BLACKFRAME | WS_CHILD | WS_VISIBLE, 6, 6, 138, 66
LTEXT "Set Hook Delay (seconds):", -1, 12, 42, 93, 8
LTEXT "Set Hook Menu Range:", -1, 12, 57, 93, 8
}
MEMORY_SWAP DIALOG LOADONCALL MOVEABLE DISCARDABLE 63, 65, 132, 66
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "CMCCODE - Memory Swap"
FONT 8, "MS Sans Serif"
{
EDITTEXT 101, 37, 30, 28, 12, ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP
DEFPUSHBUTTON "OK", 1, 12, 48, 45, 13
PUSHBUTTON "Cancel", 2, 75, 48, 45, 13
CTEXT "Enter a memory allocation swap", -1, 6, 7, 120, 9
CTEXT "value (range + 256KB to 16MB):", -1, 6, 16, 120, 9
LTEXT "KBytes", -1, 68, 32, 27, 8
}
OP_TOOLBAR DIALOG LOADONCALL MOVEABLE DISCARDABLE 102, 57, 104, 112
STYLE WS_POPUP | WS_VISIBLE | WS_CAPTION | WS_SYSMENU
CAPTION "Options Toolbar"
FONT 8, "MS Sans Serif"
{
PUSHBUTTON "&Encode...", 1001, -1, 0, 105, 14
PUSHBUTTON "&Decode...", 1002, -1, 14, 105, 14
PUSHBUTTON "&Wincode...", 1003, -1, 28, 105, 14
}

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PUSHBUTTON "W&insort...", 1004, -1, 42, 105, 14
PUSHBUTTON "&Viewer...", 1005, -1, 56, 105, 14
PUSHBUTTON "&ZIP/UNZIP...", 1006, -1, 70, 105, 14
PUSHBUTTON "&Hook App...", 1007, 84, 105, 14
PUSHBUTTON "E&xit Toolbar", 2, -1, 98, 105, 14
}
ORDER_HELP DIALOG LOADONCALL MOVEABLE DISCARDABLE 61, 21, 228, 258
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Ordering the Help file"
FONT 8, "MS Sans Serif"
{
DEFPUSHBUTTON "THANKS!", 2, 77, 240, 75, 13
LTEXT "To order the Wincode Help file, send $5.00 (U.S. Dollars) to: -1, 13, 9, 204, 8
CTEXT "CMC Interactive\xAE", -1, 58, 21, 114, 8
CTEXT "8 S. Michigan Ave.", -1, 58, 29, 114, 8
CTEXT "Suite 2003", -1, 58, 37, 114, 8
CTEXT "Chicago, IL 60606", -1, 58, 45, 114, 8
LTEXT "This price and address are guaranteed until 6/1/95. If you", -1, 13, 57, 204, 8
LTEXT "wish to obtain the Help file after this date, please e-mail", -1, 13, 65, 204, 8
LTEXT "first for updated information. Make checks payable to:", -1, 13, 73, 204, 8
CTEXT "CMC Interactive", -1, 13, 83, 204, 8
LTEXT "By ordering Help, you obtain the following:", -1, 13, 112, 204, 8
LTEXT " 1)The most recent version of Wincode with the Help file", -1, 13, 122, 204, 8
LTEXT " 2)Directly e-mailed pre-releases of future versions of", -1, 13, 130, 204, 8
LTEXT " Wincode and the Help file", -1, 13, 138, 204, 8
LTEXT " 3)E-mail (only) technical support", -1, 13, 146, 204, 8
LTEXT "All files will be ELECTRONICALLY MAILED to you. If you", -1, 13, 162, 204, 8
LTEXT "wish to have something sent through the US Postal service,", -1, 13, 170, 204, 8
LTEXT "please include a Self-Addressed-STAMPED Disk Mailer AND", -1, 13, 178, 204, 8
LTEXT "Disk with your order. Multi-User pricing is available.", -1, 13, 186, 204, 8
LTEXT " Main Internet Address: cmcinter@suba.com", -1, 13, 203, 204, 8
LTEXT " America Online: cmcinter@aol.com", -1, 13, 214, 204, 8
CONTROL "", -1, "STATIC", SS_BLACKFRAME | WS_CHILD | WS_VISIBLE, 6, 6, 216, 228
ICON "MAIN_ICON", -1, 25, 27, 18, 20, SS_ICON | WS_GROUP
ICON "ORDER_HELP_ICON", -1, 187, 27, 18, 20, SS_ICON | WS_GROUP
CTEXT "PLEASE" include a LEGIBLE E-MAIL address with all orders.", -1, 13, 98, 204, 8
CONTROL "", -1, "STATIC", SS_BLACKFRAME | WS_CHILD | WS_VISIBLE, 16, 158, 198, 1
CONTROL "", -1, "STATIC", SS_BLACKFRAME | WS_CHILD | WS_VISIBLE, 16, 93, 198, 1

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CONTROL "", -1, "STATIC", SS_BLACKFRAME | WS_CHILD | WS_VISIBLE, 16, 109, 198, 1
}
SEQUENCE DIALOG LOADONCALL MOVEABLE DISCARDABLE 27, 37, 237, 147
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Concatenate Files"
FONT 8, "MS Sans Serif"
{
EDITTEXT 750, 6, 16, 168, 12
DEFPUSHBUTTON "OK", 1, 183, 9, 45, 13
PUSHBUTTON "-> &Encode", 756, 183, 67, 45, 13
PUSHBUTTON "-> &Decode", 757, 183, 85, 45, 13
LISTBOX 751, 6, 44, 64, 82, LBS_STANDARD | WS_TABSTOP
PUSHBUTTON "->", 752, 77, 65, 18, 13
PUSHBUTTON "<-", 753, 77, 88, 18, 13
LISTBOX 754, 111, 44, 64, 82, LBS_STANDARD | WS_TABSTOP
PUSHBUTTON "Cancel", 2, 183, 27, 45, 13
PUSHBUTTON "&Help", 755, 183, 45, 45, 13
LTEXT "Concatenate all files into:", -1, 6, 6, 87, 8
LTEXT "Files:", -1, 6, 33, 63, 8
LTEXT "Sequence:", -1, 111, 33, 63, 8
CTEXT "1", -1, 99, 45, 10, 8
CTEXT "2", -1, 99, 53, 10, 8
CTEXT "3", -1, 99, 61, 10, 8
CTEXT "4", -1, 99, 69, 10, 8
CTEXT "5", -1, 99, 77, 10, 8
CTEXT "6", -1, 99, 85, 10, 8
CTEXT "7", -1, 99, 93, 10, 8
CTEXT "8", -1, 99, 101, 10, 8
CTEXT "9", -1, 99, 109, 10, 8
RTEXT "...", -1, 99, 117, 10, 8
LTEXT "Status:", -1, 6, 132, 27, 8
LTEXT "", 758, 36, 132, 195, 8
PUSHBUTTON "> >", 759, 77, 45, 18, 13
PUSHBUTTON "< <", 760, 77, 109, 18, 13
LTEXT "Count:", -1, 183, 118, 24, 8
LTEXT "", 761, 210, 118, 21, 8
LTEXT "File", -1, 183, 109, 48, 8

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WIN_CONFIG DIALOG LOADONCALL MOVEABLE DISCARDABLE 25, 21, 267, 186
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "CMCCODE Options"
FONT 8, "MS Sans Serif"
{
DEFPUSHBUTTON "OK", 1, 213, 9, 45, 13
CHECKBOX "C&reate Report File", 401, 12, 9, 78, 12, BS_AUTOCHECKBOX | WS_TABSTOP
CHECKBOX "St&art as Icon", 402, 12, 23, 78, 12, BS_AUTOCHECKBOX | WS_TABSTOP
CHECKBOX "Auto File & Overwrite", 403, 12, 37, 78, 12, BS_AUTOCHECKBOX | WS_TABSTOP
CHECKBOX "A&lways On Top", 405, 93, 9, 75, 12, BS_AUTOCHECKBOX | WS_TABSTOP
CHECKBOX "Close When Do&nc", 406, 93, 23, 75, 12, BS_AUTOCHECKBOX | WS_TABSTOP
CHECKBOX "&Memory Swapping", 407, 93, 37, 75, 12
CHECKBOX "W&insort First", 408, 93, 51, 75, 12, BS_AUTOCHECKBOX | WS_TABSTOP
COMBOBOX 409, 117, 72, 54, 39, CBS_DROPDOWNLIST | WS_VSCROLL | WS_TABSTOP
COMBOBOX 410, 117, 87, 54, 39, CBS_DROPDOWNLIST | WS_VSCROLL | WS_TABSTOP
EDITTEXT 411, 12, 114, 141, 9, ES_AUTOHSCROLL | NOT WS_BORDER | WS_TABSTOP
PUSHBUTTON "?", 412, 156, 110, 12, 13
EDITTEXT 413, 15, 156, 148, 21, ES_MULTILINE | WS_BORDER | WS_VSCROLL | WS_TABSTOP
RADIOBUTTON "&Wincode Default", 414, 183, 94, 69, 12, BS_AUTORADIOBUTTON | WS_GROUP | WS_TABSTOP
RADIOBUTTON "&Custom:", 415, 183, 109, 39, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
EDITTEXT 416, 224, 109, 30, 12
RADIOBUTTON "&Standard (Default)", 417, 183, 146, 75, 12, BS_AUTORADIOBUTTON | WS_GROUP | WS_TABSTOP
RADIOBUTTON "Cus&tom:", 418, 183, 163, 39, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
EDITTEXT 419, 224, 163, 30, 12
CHECKBOX "DOS Attri&butes", 404, 12, 51, 78, 12, BS_AUTOCHECKBOX | WS_TABSTOP
PUSHBUTTON "Cancel", 2, 213, 27, 45, 13
PUSHBUTTON "&Defaults", 420, 213, 45, 45, 13
PUSHBUTTON "&Help", 421, 213, 63, 45, 13
GROUPBOX "Working Directory", 103, 6, 102, 165, 24, BS_GROUPBOX
LTEXT "Enter sixty-four valid ASCII characters.", -1, 15, 145, 132, 9
CONTROL "", -1, "STATIC", SS_BLACKFRAME | WS_CHILD | WS_VISIBLE, 6, 6, 165, 60
GROUPBOX "Mode", 101, 177, 81, 84, 45, BS_GROUPBOX
GROUPBOX "Line Length", 102, 177, 130, 84, 51, BS_GROUPBOX
GROUPBOX "Code Table", -1, 6, 130, 165, 51, BS_GROUPBOX
LTEXT "Interactive Mode Setting:", -1, 6, 90, 90, 8
LTEXT "Sound Effects Setting:", -1, 6, 76, 81, 8
}
WNS_CONFIG DIALOG LOADONCALL MOVEABLE DISCARDABLE 22, 38, 255, 159

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STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Winsort Options"
FONT 8, "MS Sans Serif"
{
DEFPUSHBUTTON "OK", 1, 201, 9, 45, 13
EDITTEXT 501, 42, 19, 126, 12, ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP
EDITTEXT 502, 42, 35, 126, 12, ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP
CHECKBOX "&Use Custom BEGIN/END", 503, 12, 54, 123, 12, BS_AUTOCHECKBOX | WS_TABSTOP
EDITTEXT 504, 12, 93, 117, 9, ES_AUTOHSCROLL | NOT WS_BORDER | WS_TABSTOP
PUSHBUTTON "?", 505, 132, 89, 12, 13
EDITTEXT 506, 12, 121, 117, 9, ES_AUTOHSCROLL | NOT WS_BORDER | WS_TABSTOP
PUSHBUTTON "?", 507, 132, 117, 12, 13
CHECKBOX "Execute Winsort in Silent & Mode", 508, 9, 140, 138, 12, BS_AUTOCHECKBOX | WS_TABSTOP
RADIOBUTTON "&Standard Winsort", 509, 159, 95, 75, 12, BS_AUTORADIOBUTTON | WS_GROUP | WS_TABSTOP
RADIOBUTTON "Flush &Left ONLY", 510, 159, 110, 75, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
RADIOBUTTON "Flush Left and Sort", 511, 159, 125, 75, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
EDITTEXT 512, 216, 139, 24, 12
PUSHBUTTON "Cancel", 2, 201, 27, 45, 13
PUSHBUTTON "&Defaults", 513, 201, 45, 45, 13
PUSHBUTTON "&Help", 514, 201, 63, 45, 13
LTEXT "END:", -1, 12, 38, 24, 8
LTEXT "BEGIN:", -1, 12, 22, 27, 8
GROUPBOX "Sort Options", 101, 153, 81, 96, 72, BS_GROUPBOX
GROUPBOX "Custom BEGIN/END", -1, 6, 6, 168, 66, BS_GROUPBOX
GROUPBOX "Winsort Executable", 102, 6, 81, 141, 24, BS_GROUPBOX
GROUPBOX "Winsort Directory", 103, 6, 109, 141, 24, BS_GROUPBOX
LTEXT "Flush # Chars:", -1, 159, 141, 54, 8
}
Z_UZ_CONFIG_DIALOG LOADONCALL MOVEABLE DISCARDABLE 27, 24, 240, 151
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "ZIP/UNZIP Options"
FONT 8, "MS Sans Serif"
{
DEFPUSHBUTTON "OK", 1, 186, 9, 45, 13
EDITTEXT 601, 69, 6, 90, 12, ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP
PUSHBUTTON "?", 602, 162, 5, 12, 13
EDITTEXT 603, 69, 23, 105, 12, ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP
EDITTEXT 604, 69, 39, 90, 12, ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP

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PUSHBUTTON "?", 605, 162, 38, 12, 13
EDITTEXT 606, 69, 55, 105, 12, ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP
EDITTEXT 607, 102, 71, 33, 12
RADIOBUTTON "Def&ault to location of input file", 608, 12, 100, 132, 12, BS_AUTORADIOBUTTON | WS_GROUP | WS_TABSTOP
RADIOBUTTON "Uscr select &on UNZIP", 609, 12, 114, 132, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
RADIOBUTTON "&Set:", 610, 12, 128, 27, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
EDITTEXT 611, 42, 128, 99, 12, ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP
PUSHBUTTON "?", 612, 144, 128, 12, 13
RADIOBUTTON "&Normal", 613, 171, 100, 57, 12, BS_AUTORADIOBUTTON | WS_GROUP | WS_TABSTOP
RADIOBUTTON "&Minimized", 614, 171, 114, 57, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
RADIOBUTTON "Hidd&en", 615, 171, 128, 57, 12, BS_AUTORADIOBUTTON | WS_TABSTOP
PUSHBUTTON "Cancel", 2, 186, 27, 45, 13
PUSHBUTTON "&Defaults", 616, 186, 45, 45, 13
PUSHBUTTON "&Help", 617, 186, 63, 45, 13
GROUPBOX "UNZIPped File(s) Directory", 101, 6, 87, 153, 57, BS_GROUPBOX
GROUPBOX "Show Options", 102, 165, 87, 69, 57, BS_GROUPBOX
LTEXT "ZIP Filename:", -1, 6, 10, 57, 8
LTEXT "ZIP Param(s):", -1, 6, 26, 57, 8
LTEXT "UNZIP Filename:", -1, 6, 42, 60, 8
LTEXT "UNZIP Param(s):", -1, 6, 58, 60, 8
LTEXT "Extension for ZIPped Files:", -1, 6, 74, 93, 8
}
ZIP_NAME DIALOG LOADONCALL MOVEABLE DISCARDABLE 35, 31, 132, 60
STYLE DS_MODALFRAME | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "CMCCODE - ZIP Filename"
FONT 8, "MS Sans Serif"
{
EDITTEXT 101, 31, 23, 51, 12, ES_AUTOHSCROLL | WS_BORDER | WS_TABSTOP
DEFPUSHBUTTON "OK", 1, 12, 42, 45, 13
PUSHBUTTON "Cancel", 2, 75, 42, 45, 13
CTEXT "Enter a filename for the ZIP archive:", -1, 4, 7, 123, 9
LTEXT "", 102, 84, 25, 24, 8
}
STRINGTABLE LOADONCALL MOVEABLE DISCARDABLE
{
101, "Encode a data file..."
102, "Decode a data file..."
103, "Concatenate multiple files into a single file (specific ordering)..."
}

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104, "View a Wincode Report file..."
105, "Clean Wincode directories by deleting files..."
106, "Set Encode options..."
107, "Set Decode options..."
108, "Set General Wincode options..."
109, "Set Winsort options..."
110, "Select a Report File viewer..."
111, "Set PKZIP/UNZIP options..."

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}

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STRINGTABLE LOADONCALL MOVEABLE DISCARDABLE

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{

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112, "Set the Application Hook options..."
113, "Wincode Help Contents..."
114, "Help file Keyword Search..."
115, "Help on using Windows Help files..."
116, "Wincode Internet Frequency Asked Questions..."
117, "Legal Copyrights for files..."
118, "Information on ordering the Wincode Help file..."
119, "Version and Author information..."
121, "Set Wincode Interactive Drag & Drop Mode..."
122, "Hook the Wincode Menu into a selected application..."
123, "Select the Options Toolbar to configure Wincode..."
124, "Exit the Wincode program..."
125, "Stop the current Operation..."
126, "Quit the entire Operation..."
127, "Encode, Decode, Exit..."

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}

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STRINGTABLE LOADONCALL MOVEABLE DISCARDABLE

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{

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128, "Concat, View, Clean, Drag&Drop Mode, Hook..."
129, "Encode, Decode, Wincodt, Winsort, Viewer, PKZIP/UNZIP, Hook App..."
130, "Help and related information..."

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}

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CLEAN_DOWN ICON LOADONCALL MOVEABLE DISCARDABLE

```

```

{

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'00 00 01 00 01 00 20 20 10 00 00 00 00 00 E8 02'
'00 00 16 00 00 00 28 00 00 00 20 00 00 00 40 00'
'00 00 01 00 04 00 00 00 00 00 00 02 00 00 00 00'

```

'00 00 00 00 00 00 00 00 00 00 00 00 00 00 00'
'00 00 00 00 80 00 00 80 00 00 00 80 80 00 80 00'
'00 00 80 00 80 00 80 80 00 00 C0 C0 C0 00 80 80'
'80 00 00 00 FF 00 00 FF 00 00 00 FF FF 00 FF 00'
'00 00 FF 00 FF 00 FF FF 00 00 FF FF FF 00 00 00'
'00 00 00 00 00 00 00 00 00 00 00 00 00 00 08 77'
'77 77 77 77 77 77 77 77 77 77 77 77 70 08 77'
'77 77 77 77 77 00 00 07 77 77 77 77 77 70 08 77'
'77 77 77 70 00 FF FF F0 00 77 77 77 77 70 08 77'
'77 77 70 0F FF 00 FF 0F FF 00 77 77 77 70 08 77'
'77 77 00 FF FF FF 00 FF FF F0 07 77 77 70 08 77'
'77 77 0F 00 FF 00 FF 0F F0 0F 07 77 77 70 08 77'
'77 77 0F FF 00 FF FF F0 0F FF 07 77 77 70 08 77'
'77 70 0F FF 0F 00 FF 0F 0F FF 00 77 77 70 08 77'
'77 70 F0 00 FF FF 00 FF F0 00 F0 77 77 70 08 77'
'77 70 FF 0F 0F F0 F0 FF 0F 0F F0 77 77 70 08 77'
'77 70 F0 FF F0 0F FF 00 FF F0 F0 77 77 70 08 77'
'77 00 00 FF F0 F0 F0 F0 F0 0F 00 07 77 70 08 77'
'77 00 FF 0F 0F FF 0F FF 0F FF F0 07 77 70 07 77'
'77 0F 0F F0 FF F0 F0 F0 F0 F0 0F 07 77 70 08 77'
'77 0F F0 0F 0F 0F FF 0F FF 0F FF 07 77 70 07 77'
'70 0F 0F FF F0 F0 FF F0 F0 F0 F0 00 77 70 08 77'
'70 F0 F0 F0 00 00 00 00 00 FF 0F F0 77 70 08 77'
'70 0F F0 00 F8 F8 F8 F8 F0 00 0F F0 77 70 08 77'
'70 00 0F FF 8F FF 8F FF 8F FF 00 00 77 70 08 77'
'00 F8 F8 F8 F8 F8 F8 F8 F8 FF 00 07 70 08 77'
'0F 8F 8F 8F FF 8F FF 8F FF 8F F8 FF 07 70 08 77'
'00 F8 F8 F8 F8 F8 F8 F8 F8 8F 00 07 70 08 77'
'77 00 00 FF 8F 8F 8F FF 8F F0 00 07 77 70 08 77'
'77 77 77 00 00 00 00 00 00 07 77 77 77 70 08 77'
'77 77 77 77 77 77 77 77 77 77 77 77 70 08 77'
'77 77 77 77 77 77 77 77 77 77 77 77 70 08 77'
'77 77 77 77 77 77 77 77 77 77 77 77 70 08 77'
'77 77 77 77 77 77 77 77 77 77 77 77 70 08 77'
'77 77 77 77 77 77 77 77 77 77 77 77 70 08 88'
'88 88 88 88 88 88 88 88 88 88 88 88 80 00 00'
'00 00 00 00 00 00 00 00 00 00 00 00 00 00 00'

'00 00 00 00 00 00 00 00 00 00 00 00 00 00 00'
'00 00 00 00 00 00 00 00 00 00 00 00 00 00 00'
'00 00 00 00 00 00 00 00 00 00 00 00 00 00 00'
'00 00 00 00 00 00 00 00 00 00 00 00 00 00 00'
'00 00 00 00 00 00 00 00 00 00 00 00 00 00 00'
'00 00 00 00 00 00 00 00 00 00 00 00 00 00 00'
'00 00 00 00 00 00 00 00 00 00 00 00 00 00 00'

While a specific embodiment of the invention has been shown and described, it is to be understood that numerous changes and modifications may be made therein without departing from the scope, spirit and intent of the invention as set forth in the appended claims. While it has been stated that it is necessary to first store the digital data in computer memory for later conversion into encoded text format, such as seven-digit ASCII code, it is within the purview of the present invention to send live video and/or audio through the Internet. In addition, it is to be understood that instead of the receiving computer being a personal computer, the receiving end may also be a cable-TV box that has been adapted for operation with the Internet, and for accessing files on the Internet. In addition, the receiving end may also be any display device terminal which may access the Internet.

WHAT I CLAIM IS:

CLAIM 1. A method of transmitting video and/or audio over the Internet, comprising:

(a) converting analogue video and/or audio data into digital data;

(b) storing the digital data representing the video and/or audio in binary format in computer memory of a host computer;

(c) converting the stored binary format data of said step (b) into encoded text format data;

(d) transmitting said encoded text format data of said step (c) to at least a first server forming part of the Internet;

(e) sending the encoded text format data through the Internet to an end-user computer or terminal device for processing thereat, said step of sending comprising establishing a socket-to-socket connection between the host computer and the end-user computer or terminal device;

(f) receiving the encoded text format data at the end-user computer or terminal device;

(g) said step (f) comprising catching the encoded text format data and directing the encoded text format data to a specific directory-location in memory of the end-user computer or terminal device;

(h) decoding the encoded text format data into binary data;
and

(i) playing the video and/or audio.

CLAIM 2. The method of transmitting video and/or audio over the Internet according to claim 1, wherein said step (g) comprises directing the incoming encoded text format data to a cache directory.

CLAIM 3. The method of transmitting video and/or audio over the Internet according to claim 1, wherein said step (c) comprises converting the binary data into seven-digit ASCII code.

CLAIM 4. The method of transmitting video and/or audio over the Internet according to claim 1, wherein said step (d) comprises routing the encoded text format data through a plurality of servers forming part of the Internet.

CLAIM 5. The method of transmitting video and/or audio over the Internet according to claim 1, wherein said step (i) comprises converting the digital binary data back into analogue.

CLAIM 6. A method of transmitting data over the Internet, comprising:

(a) storing digital data in binary format in computer memory of a host computer;

(b) converting the stored binary format data of said step (a) into encoded text format data;

(c) transmitting said encoded text format data of said step (b) to at least a first server forming part of the Internet;

(d) sending the encoded text format data through the Internet to an end-user computer or terminal device for processing thereat, said step of sending comprising establishing a socket-to-socket connection between the host computer and the end-user computer or terminal device;

(e) receiving the encoded text format data at the end-user computer or terminal device;

(f) said step (e) comprising catching the encoded text format data and directing the encoded text format data to a specific directory-location in memory of the end-user computer or terminal device;

(g) decoding the encoded text format data into binary data; and

(h) playing the video and/or audio.

CLAIM 7. The method of transmitting data over the Internet according to claim 6, wherein said step (f) comprises directing the incoming encoded text format data to a cache directory.

CLAIM 8. The method of transmitting data over the Internet according to claim 6, wherein said step (b) comprises converting the binary data into seven-digit ASCII code.

CLAIM 9. The method of transmitting data over the Internet according to claim 6, wherein said step (c) comprises routing the encoded text format data through a plurality of servers forming part of the Internet.

CLAIM 10. The method of transmitting data over the Internet according to claim 6, wherein said step (h) comprises converting the digital binary data back into analogue.

CLAIM 11. A method of transmitting video and/or audio over the Internet, comprising:

(a) converting analogue video and/or audio data into digital data at a host-computer;

(b) transmitting the digital data of said step (a) to at least a first server forming part of the Internet in encoded text format data;

(c) sending the encoded text format data through the Internet to an end-user computer or terminal device for processing thereat, said step of sending comprising establishing a socket-to-socket connection between the host computer and the end-user computer or terminal device;

(d) receiving the encoded text format data at the end-user computer or terminal device;

(f) said step (e) comprising catching the encoded text format data and directing the encoded text format data to a specific directory-location in memory of the end-user computer or terminal device;

(g) decoding the encoded text format data; and

(h) playing the video and/or audio.

CLAIM 12. The method of transmitting video and/or audio over the Internet according to claim 11, wherein said step (f) comprises directing the incoming encoded text format data to a cache directory.

CLAIM 13. The method of transmitting video and/or audio over the Internet according to claim 11, wherein said step (b) comprises transmitting the digital data as seven-digit ASCII code.

CLAIM 14. The method of transmitting video and/or audio over the Internet according to claim 11, wherein said step (d) comprises routing the encoded text format data through a plurality of servers forming part of the Internet.

CLAIM 15. A method of receiving video and/or audio over the Internet at a receiving computer or terminal, comprising:

(a) establishing a socket-to-socket connection between a

host computer, from which the video and/or audio is being transmitted on the Internet, and a receiving computer or terminal;

(b) receiving encoded text format data over the Internet at the receiving computer or terminal, said encoded text format data being representative of the audio and/or audio;

(c) catching the encoded text format data at the receiving computer or terminal, and directing the encoded text format data to a specific directory-location in computer memory of the receiving computer or terminal;

(d) decoding the encoded text format data into binary format, and, thereafter;

(e) playing the video and/or audio at the receiving computer or terminal.

CLAIM 16. The method of receiving video and/or audio over the Internet at a receiving computer or terminal, according to claim 15, wherein said step (c) comprises directing the incoming encoded text format data to a cache directory.

CLAIM 17. The method of receiving video and/or audio over the Internet at a receiving computer or terminal, according to claim 15, wherein said step (b) comprises receiving the data as seven-digit ASCII code.

CLAIM 18. The method of receiving video and/or audio over the Internet at a receiving computer or terminal, according to claim 15, wherein said step (a) comprises using a plurality of servers forming part of the Internet.

CLAIM 19. A method of transmitting video and/or audio over the Internet, comprising:

- (a) converting analogue video and/or audio data into digital data;
- (b) storing the digital data representing the video and/or audio in binary format in computer memory of a host computer;
- (c) converting the stored binary format data of said step (b) into encoded text format data;
- (d) transmitting said encoded text format data of said step (c) to at least a first server forming part of the Internet;
- (e) sending the encoded text format data through the Internet to an end-user computer or terminal device for processing thereat, said step of sending comprising establishing a point-to-point socket connection between the host computer and the end-user computer or terminal device;
- (f) receiving the encoded text format data at the end-user computer or terminal device;

(g) said step (f) comprising directing the encoded text format data to a specific location of the end-user computer or terminal;

(h) decoding the encoded text format data into binary data;
and

(i) playing the video and/or audio on the end-user computer or terminal.

CLAIM 20. An apparatus for receiving video and/or audio over the Internet at a receiving computer or terminal, comprising:

a computer means comprising memory means for storing information;

means for establishing a point-to-point connection between the computer means and a host computer from which the video and/or audio is being transmitted on the Internet, and for receiving encoded text format data over the Internet, said encoded text format data being representative of the audio and/or audio;

said memory means comprising a first portion for catching the encoded text format data, and directing the encoded text format data to a specific directory-location in said computer memory means;

said memory means comprising a second portion for decoding the encoded text format data into binary format; and

said computer means further comprising player means for playing the video and/or audio.

CLAIM 21. A system for transmitting video and/or audio over the Internet, comprising:

means for converting analogue video and/or audio data into digital data;

a computer means having first memory means for storing the digital data representing the video and/or audio in binary format;

said computer means comprising a second memory means for converting the stored binary format data into encoded text format data;

means for transmitting said encoded text format data to at least a first server forming part of the Internet;

means for sending the encoded text format data through the Internet to an end-user computer or terminal device for processing thereat, said means for sending comprising means for establishing a socket-to-socket connection between said computer means and the end-user computer or terminal device;

a receiving means having third memory means for receiving the encoded text format data;

said third memory means comprising catching means for catching the Internet-transmitted encoded text format data and

directing the encoded text format data to a specific directory-location of the receiving means;

third memory means further comprising decoding means for decoding the encoded text format data into binary data; and

said receiving means having playing means for playing back the video and/or audio.

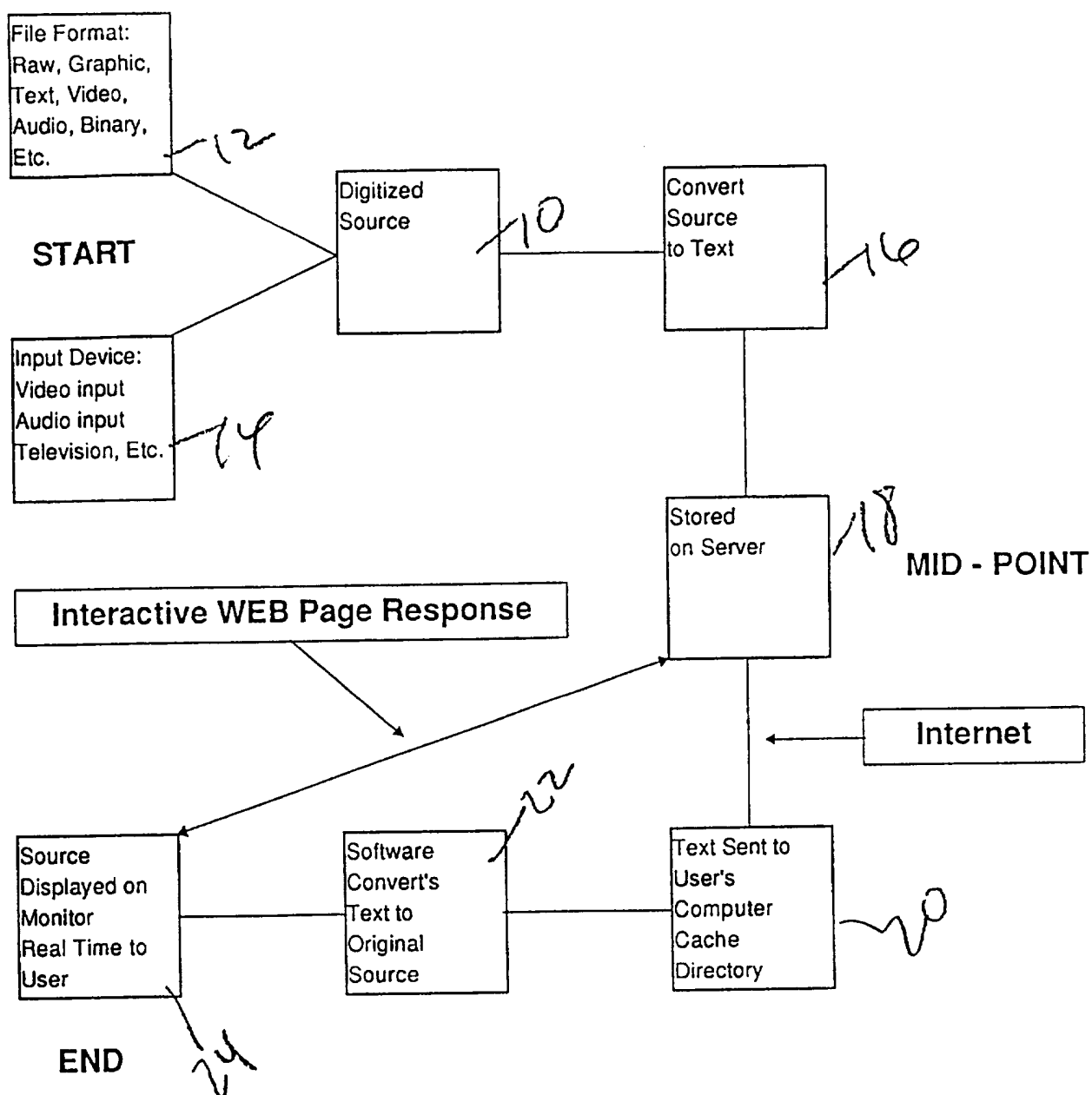


FIGURE 1

FIGURE 2

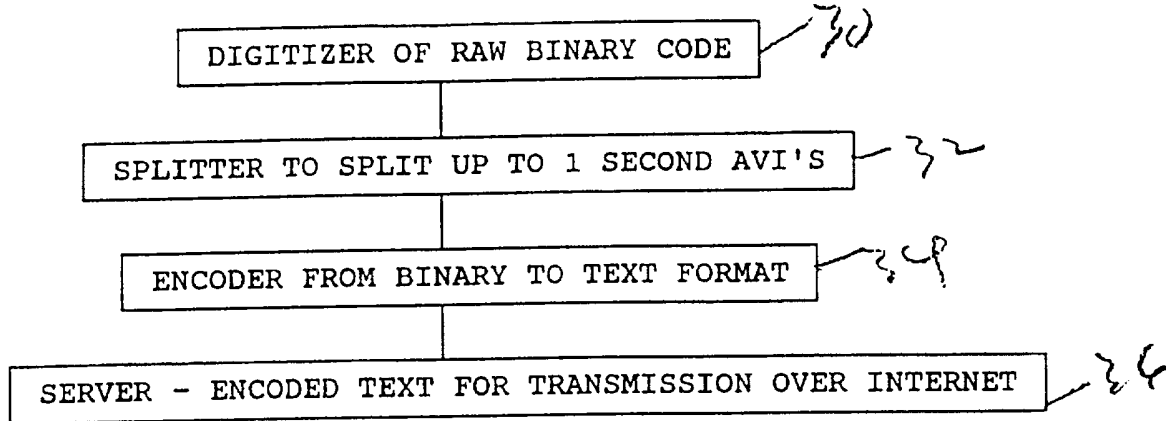
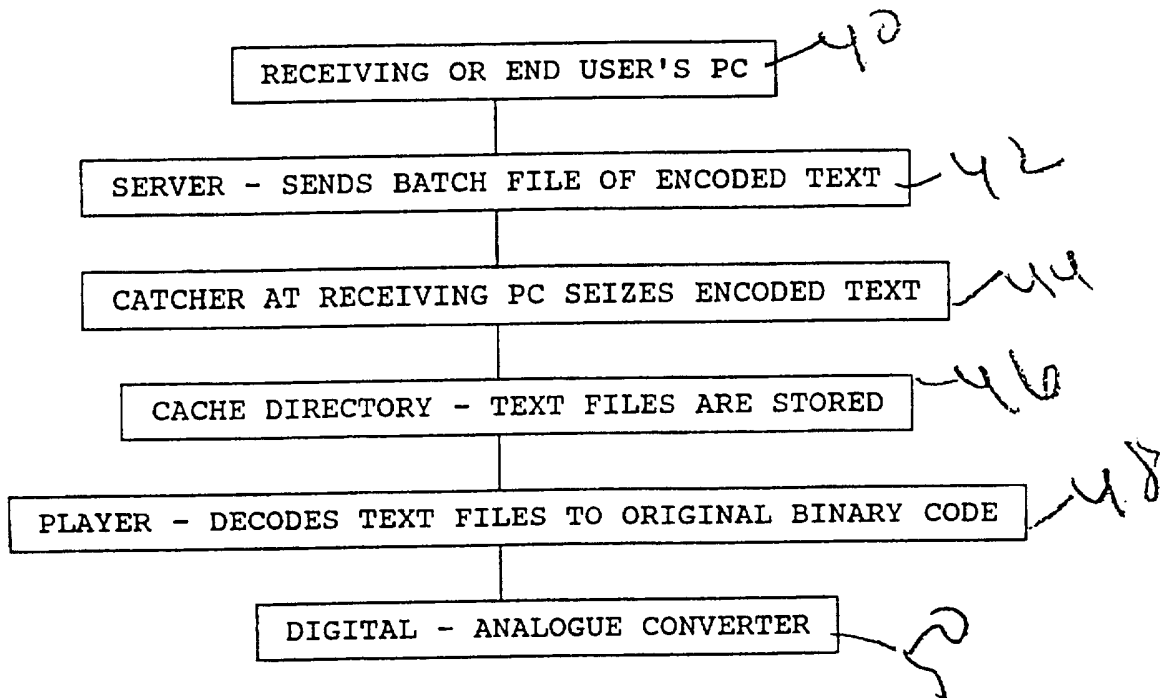


FIGURE 3



INTERNATIONAL SEARCH REPORT

 International application No.
PCT/US96/19383
A. CLASSIFICATION OF SUBJECT MATTER
 IPC(6) : G06F 3/00
US CL : 395/200.04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 395/200.04, 200.01, 200.02, 200.1, 200.12, 200.13, 200.17, 200.18, 200.2, 154

 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
APS (USPAT, JPOABS)
C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US, A, 5,375,068 (PALMER ET AL.) 20 DECEMBER 1994, see abstract; figure 6; col. 5 (line 27 - et seq.); col. 7 (line 20 - et seq.); col. 8 (line 11 - et seq.).	1-21

☐ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

* Special categories of cited documents:	* T Inter document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
* A document defining the general state of the art which is not considered to be of particular relevance	* X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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* O document referring to an oral disclosure, use, exhibition or other means	
* P document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

19 FEBRUARY 1997

Date of mailing of the international search report

07 MAR 1997

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