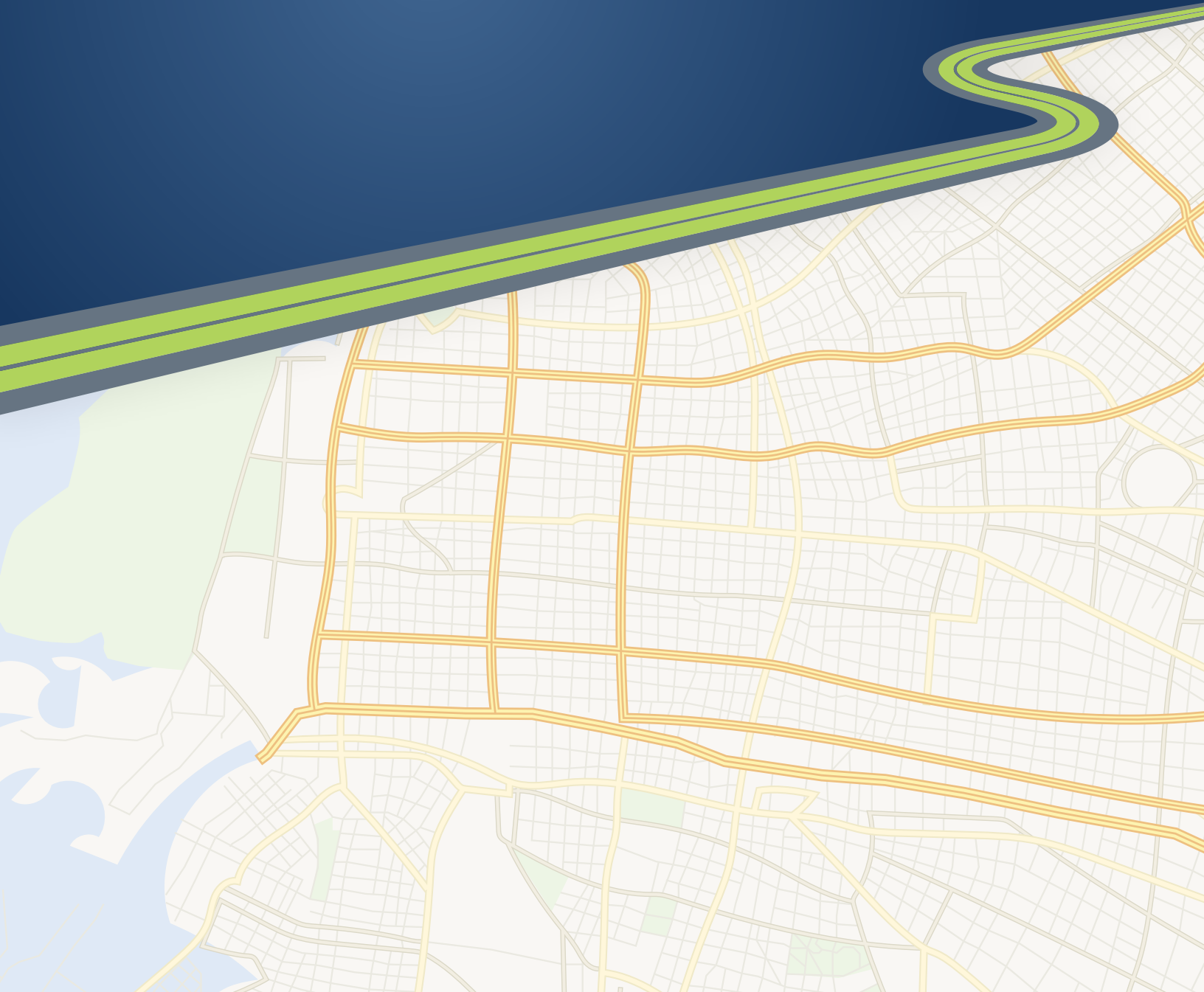


User's Guide



PC★MILER[®]
CICS **29**



Technology Beyond Miles





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PC*MILER® for CICS and MVS/BATCH

1.0 Introduction

Congratulations! By purchasing a PC*MILER product, you have made a cost-effective investment in high quality software that is simple to learn and easy to use. PC*MILER-CICS uses simple-to-follow screens and requires minimal keystrokes to generate mileage information. In a matter of seconds you can calculate shortest, practical, national network and toll-avoidance miles, and determine cost and time estimates. Your calculations can include up to 10 stops.

PC*MILER-CICS utilizes a unique distributed processing solution. This solution maximizes the efficiency of your on-line transactions by "farming out" repetitive mileage calculations to a dedicated PC. With PC*MILER-CICS, you can benefit from having a seamless mileage interface with your transportation management system. ALK provides COBOL source code to the end-user to customize and integrate PC*MILER with other transportation management software. An interface has been developed by ALK Technologies, Inc. for Distribution Sciences, Inc., to provide mileage to DSI's Base Rate® system for on-line and batch processing.

2.0 Hardware and Software Requirements

Because PC*MILER-CICS and MVS/BATCH employs a distributed processing solution, the following additional hardware is required to use the software:

- A dedicated PC with a 1.5-2 GHz processor and a minimum 512 MB of RAM (1 GB recommended).
- Communication software from Zephyr Development Corporation, which can be downloaded using the link given below. The product is called PASSPORT PC TO HOST via TN3270. The PC*MILER-CICS application uses the HLLAPI api to transfer data between the PC and the mainframe. HLLAPI (High Level Language Application Program Interface) is the industry standard method to interface Windows PC applications with host applications via 3270 terminal emulation. ALK Technologies does not sell or provide technical support for the TN3270 emulation software.

The software can be downloaded at any time from the Zephyr website:
<http://www.zephyrcorp.com/downloads/index.htm?bodylink=true>.

After the PASSPORT PC TO HOST and the PC*MILER-CICS products are installed, you need to ensure that the PC*MILER-CICS application can find the PASSPORT PC TO HOST hllapi dll by doing the following:

1. Search for the folder that contains the WHLLAPI.DLL and search for the folder that contains the CICS.exe.
2. Then, copy the WHLLAPI.DLL file from the PASSPORT folder to the folder that contains CICS.exe, and rename this copied file to "HLLAPI32.DLL".

For more information, please refer to the following article that can be found on the Zephyr Development Corporation website at <http://www.zephyrcorp.com/api/hllapi-interface.htm> .

3.0 Installation

You should have received the following with your purchase of PC*MILER-CICS:

- One copy of the PC*MILER product CD.
- One CD containing the CICS Server.
- A tape or cartridge containing the CICS resident software.

Mainframe Installation

1. Install the resident CICS and MVS/BATCH software on your mainframe. Three MVS based PDS's were copied to tape using IEBCOPY and standard label. The order of files and their names are:
 - **ALK.LOADLIB**
(run time software. Record length=80 block size=12960 recfm=u)
 - **ALK.SOURCE**
(COBOL source code. Record length=80 block size=3120 recfm=FB)
 - **ALK.COPYLIB**
(copy books and maps. Record length=80 block size=3120 recfm=FB)

At the end of this document you will find a printout of the JCL used to create the tape.

2. Update the CICS resource definition or CSD file with the following FCT, PPT, and PCT parameters. A description of the files is in the technical overview section. These entries can be copied from **ALK.SOURCE (TESTFCT)**.

FCT parms for three vsam files

```
DFHFCT TYPE=DATASET,  
  DATASET=DSMIDQUE,  
  DSNNAME=DSV.PCMILE.MIDQUE,DISP=SHR,  
  ACCMETH=VSAM,  
  SERVREQ=(BROWSE,DELETE,READ,ADD,UPDATE),  
  FILSTAT=(ENABLED,CLOSED),  
  RECFORM=(FIXED,BLOCKED),  
  LOG=NO,  
  STRNO=4
```

```
DFHFCT TYPE=DATASET,  
  DATASET=DSOUTQUE,  
  DSNNAME=DSV.PCMILE.OUTQUE,DISP=SHR,  
  ACCMETH=VSAM,  
  SERVREQ=(BROWSE,DELETE,READ,ADD,UPDATE),  
  FILSTAT=(ENABLED,CLOSED),  
  RECFORM=(FIXED,BLOCKED),  
  LOG=NO,  
  STRNO=4
```

```
DFHFCT TYPE=DATASET,  
  DATASET=DSBATQUE,  
  DSNNAME=DSV.PCMILE.BATQUE,DISP=SHR,  
  ACCMETH=VSAM,  
  SERVREQ=(BROWSE,READ),  
  FILSTAT=(ENABLED,CLOSED),  
  RECFORM=(FIXED,BLOCKED),  
  LOG=NO,  
  STRNO=4
```

PCT parms for two transaction ID's

```
DFHPCT TYPE=ENTRY,TRANSID=PCM1,TWASIZE=0,PROGRAM=PCM  
DFHPCTTYPE=ENTRY,TRANSID=SERV,TWASIZE=0,PROGRAM=SERVER
```

PPT parms for ALK programs

```
DFHPPTTYPE=ENTRY,PROGRAM=DSPCM1,PGMLANG=COBOL,RES=YE  
S  
DFHPPT TYPE=ENTRY,PROGRAM=DSGETMIL,PGMLANG=COBOL  
DFHPPT TYPE=ENTRY,PROGRAM=DSSERVEN,PGMLANG=COBOL  
DFHPPT TYPE=ENTRY,PROGRAM=DSPCM,PGMLANG=COBOL,RES=YES
```

PPT parms for ALK maps

```
DFHPPT TYPE=ENTRY,MAPSET=DSPC0SC (This is PCM1 screen)
```

3. Submit the JCL called DEFPCMLE which deletes and defines three temporary vsam files
4. Start up the updated CICS region or use CEMT NEWCOPY for updated programs. For example, **TYPE: CEMT SET PROGRAM(PCM1) NEWCOPY.**

PC Installation

Install the CICS CD-ROMs onto your PC. Place the CD in the CD drive. From the **Start** Menu select *Run*. Then type:

d:\ Setup and press **<ENTER>**

4.0 Technical Support

ALK Technologies offers one year of free unlimited technical support to all registered users of PC*MILER. If you have any questions about PC*MILER|Connect or problems with the software that cannot be resolved using this *User's Guide*, contact our staff:

Phone: 609.683.0220, ext 2

Fax: 609.252.8196

Email: pcmsupport@alk.com

Site: www.alk.com/support

Hours: 8:30am – 5:30pm EST, Mon-Fri

When calling, ask for “PC*MILER Technical Support”. Please be sure to have your PC*MILER|Connect Product Key Code, version number, Windows version number, and hardware configuration information (manufacturer, speed, and monitor type) available before your call. Please include this information in your message if you are contacting us by email.

5.0 Accessing PC*MILER Product User Guides

You must have Adobe Acrobat Reader on your computer to properly view a PC*MILER product's user guide. If you do not have this program installed already, a free copy can be downloaded from www.adobe.com.

To make Adobe Reader your default reader, from within the Adobe Reader application select the Edit menu > Preferences > General and click **Select Default PDF Handler**. Select Adobe Reader from the drop-down, and click **Apply** then **OK** to close the Preferences dialog.

To view the user guide for any PC*MILER product without first opening an application, click the Windows **Start** button > **All Programs** (or the equivalent on your system) > **PCMILER 29** > *User Guides* and select one of the .pdf files from the sub-menu.

To search for a keyword or phrase in a user guide, use Adobe Reader's **Find** option in the Edit menu or on the tool bar.

All user guides can also be accessed at www.pcmiler.com/support.

6.0 Starting and Stopping the Interface

The software you installed on your dedicated PC will automatically start the interface and the MultiProtocol Workstation for Windows software when the PC is turned on.

The key3270.txt file contains logon strings that will be keyed to the host one line at a time. These strings are usually the user ID, password, and any other logon strings necessary to logon to the host. 3270 command keys such as **<Enter>** or function keys are preceded with an @ sign. For example **@E** will simulate pressing **<Enter>** on a 3270 screen. This file can be edited at installation time, or by using the *Edit logon strings* option, located within *Logon Options* in the **File** menu.

Stopping the Interface

From the PC*MILER - CICS window, choose *Exit* from the **File** menu.

7.0 Using PC*MILER for CICS

To use PC*MILER - CICS, start the transaction PCM1. The following screen will appear:

```

S   Routing Options: P=Practical S=Short N=National T=Toll Avoid
    Functions:      R=Resequence F=Reset fix dest H=Hub miles
    Zip, City/St or L/L      Miles   Cum   Cost   Hours

Origin : _____
Stop  1: _____
Stop  2: _____
Stop  3: _____
Stop  4: _____
Stop  5: _____
Stop  6: _____
Stop  7: _____
Stop  8: _____
Stop  9: _____

F3=Exit  F10=Process

```

At the top of the main entry screen are several routing options settings that determine which type of miles will be generated when you process a route. As shown, "S" is the default setting. Other options include: **<P>** will instruct PC*MILER to generate practical miles; **<S>** will instruct PC*MILER to generate shortest miles; **<N>** will instruct PC*MILER to generate miles calculated using the National Network, which is designed for larger trucks; **<T>** will instruct PC*MILER to avoid toll roads as much as possible. To change the type of miles generated, type over the current setting. (See the main *PC*MILER User's Guide* for a description of routing options settings.)

Under the routing options are function settings as follows: **<R>** resequences the stops you've entered to generate an optimal route, keeping the origin the same (see the **Route Optimization** section in the main *PC*MILER User's Guide* for more information); **<F>** resequences stops in an optimal route, keeping the origin and destination the same; **<H>** switches to HUB mode, which treats each stop as a destination so that mileage is generated from the origin to each stop (see the **Hub Routing** section in the main *PC*MILER User's Guide*). To change the function setting, type over the current setting. The default setting is a blank space.

In the middle of the screen are the stop entry fields. Enter either the city name and state abbreviations, the ZIP code, or the latitude/longitude position (example: **0333716N,1142709W**) for the stop-off locations desired. You may enter up to 10 stops.

At the bottom of the screen, the function keys used with PC*MILER - CICS are described. These include the following: **<F3>** exits the program and returns to the main screen; **<F10>** sends the mileage inquiry request to PC*MILER.

Once you have entered stop(s) on the main screen and initiated a mileage inquiry by pressing **<F10>**, the following screen will appear:

S	Routing Options: P=Practical S=Short N=National T=Toll Discouraged				
	City State or Zip	Miles	Cum	Cost	Hours
Stop 1:	KANSAS CITY KS_____				
Stop 2:	OKLAHOMA CITYOK	335	335	369.16	6.2
Stop 3:	DALLAS TX_____	215	551	606.10	10.4
Stop 4:	_____				
Stop 5:	_____				
Stop 6:	_____				
Stop 7:	_____				
Stop 8:	_____				
Stop 9:	_____				
Stop 10:	_____				

F3=Exit F10=Process

This display contains leg and cumulative mileage for each segment of your trip. The time and cost estimates are based on the values contained in the copy of PC*MILER installed on your dedicated PC.

8.0 Using PC*MILER With Other Transportation Software

An interface has been developed for Distribution Sciences, Inc., by ALK Technologies, Inc., to provide mileage to their Base Rate system for on-line and batch processing. Since mileage is an integral part of transportation, ALK has provided general purpose COBOL programs that can be accessed by in-house systems. The following technical overview describes how these programs can be used.

Technical Overview

The PC*MILER-CICS system uses distributed processing techniques (i.e., the processing is split into two). The user interface or interactive software is written in COBOL and runs on the mainframe in the CICS environment. The mileage calculation software is written in C and runs on a PC in the Windows environment. The mainframe COBOL programs communicate with the PC mileage calculation software through an interface board commonly known as "3270 emulation". The interactive software on the mainframe allows multiple users to look up point to point mileage and calculate time and cost estimates for up to ten stop-off points. Additionally, ALK is providing COBOL source code so that other transportation software can access mileage information. The COBOL routines can be used for CICS on-line lookups or batch. Following is a list of the programs and a brief description of their use.

CICS Programs

<u>Files</u>	<u>Description</u>
DSPCM	Main CICS COBOL program that xtls to DSPCM1.COB.
DSPCM1	COBOL program uses DSPC0SC screen and links to DSGETMIL
DSSERVEN	PC*MILER main screen COBOL copy file.
DSPC0SC	BMS map file with dfh macros.
DSGETMIL	COBOL program exit that writes and reads VSAM ESDS files. Pass ten city pairs -- it returns mileage, cost and time estimates.
MIREQ	Mileage request copy variables. Contains city pair input mileage data structures for DSGETMIL.
MIOUT	Mileage request output copy variables. Contains output mileage data structures for DSGETMIL.
PCMCOM	Miscellaneous copy variables.
DSGETMI	COBOL exit for rating software. Pass two city pairs in R61UT01 and returns one mileage. NOTE: This source is provided by Logility Transportation.
R61UT01	User exit copy variables used by DSGETMI.

DSSERVEN SERVER program that reads and writes VSAM files and communicates with PC*MILER on the "PC".
 SERVSCR.COB SERVER Program's main screen COBOL copy file.
 DSPCOCR BMS map file with dfh macros.

BATCH Programs

MIBATCH BATCH exit for rating software.
 Pass two city pairs in R61UT01 and returns one mileage.
 CALLBTCH Sample program that calls MIBATCH and passes two zip codes.
 BATCHJCL JCL that invokes CALLBTCH.
 DEFPCMLE JCL that deletes and defines three VSAM files.
 INPCMILE COBOL program that writes low values records to three vsam files.
 DELBJCL JCL that deletes all records from DSBATQUE.
 DELBATQ COBOL program that deletes records from DSBATQUE

VSAM Files

DSMIDQUE CICS mileage input vsam file used by SERVER, GETMILES, and GETMI.COB
 VSAM allocation attributes
 NAME(DSV.PCMILE.MIDQUE)
 KEYS(10,2)
 ACCMETH=KSDS,
 RECORDSIZE(256)
 SHAREOPTIONS(2,3)

DSBATQUE Batch mileage input queue used by SERVER and MIBATCH.COB
 VSAM allocation attributes
 NAME(DSV.PCMILE.DSBATQUE)
 KEYS(10,2)
 ACCMETH=KSDS,
 RECORDSIZE(256)
 SHAREOPTIONS(4,4)

DSOUTQUE Mileage output queue
 NAME(DSV.PCMILE.DSOUTQUE)
 KEYS(10,2)
 ACCMETH=KSDS,
 RECORDSIZE(2313)
 SHAREOPTIONS(4,4)

1. (Request) The following are field parameters for requesting miles from copy book **MIREQ**. The purpose of the Mileage request is to allow the host application to request just point-to-point miles. This type of request could be

used for a quick mile lookup from a host inquire program or for running several stop-off points in a batch environment. The host software could generate this request when a new trip is established.

<u>Var Name</u>	<u>Len</u>	<u>Value</u>	<u>Description</u>
MI-REQ-TYPE	2	MI	Miles request
MI-REQ-REF	10		CICS termid or unique key for batch e.g. B085401897
MI-REQ-OPTION	10		Pos 1) S or P or N or T short, practical, national, toll avoid miles Pos 2) M or K for miles or kilometers Pos 3) R = re sequence stops H = hub leg miles F = resequence stops fixed destination blank = otherwise
MI-REQ-MORE			Pos 4) M = more data to follow Pos 5-10) Not used
MI-REQ-SEQ	4		Sequence for multi responses
MI-REQ-ERR	2		Error Code
MI-REQ-CIT	220		Array of 10 cities 22 bytes each Specify city name or 5-digit ZIP Specify ZIP first if ZIP and city is specified 16 positions for ZIP code and/or city name 2 positions for the state abbreviation Host Software city code (up to 4 characters)
FILL8	7		Filler with blanks
B256	1		Character "R" in position 256

1. (Response) The following are field parameters for output miles from copy book **MIOUT**. The City Pair response returns an output to the host application that contains city names and zip codes along with miles, cost and time estimates.

<u>Var Name</u>	<u>Len</u>	<u>Value</u>	<u>Description</u>
MI-OUT1-TYPE	2	CP	City pair returned output
MI-OUT1-REF	10		CICS termid or batch key
MI-OUT1-NET	10		Pos 1) S or P for shortest or Practical miles
MI-OUT1-MIL-TYPE			Pos 2) M or K for miles or kilometers
MI-OUT1-OPTION			Pos 3) R = resequence stops H = hub leg miles F = resequence stops fixed destination

			blank = otherwise
MI-OUT1-MORE			Pos 4) M = more data to follow Pos 5-10) Not used
MI-OUT1-SEQ	4		Sequence for multi responses
MI-OUT1-ERR	2		Error Code
		E1	First state not found
		E2	First city not found
		E3	Second state not found
		E4	Second city not found
		E5	Unable to resequence
MI-OUT1-CIT1	27		City one 27 bytes ZIP code (if available for city) 16 positions for zip code and city name 2 positions for the state abbr. Host Software city code (up to 4 characters)
MI-OUT1-CIT2	27		City two 27 bytes ZIP code (if available for city) 16 positions for zip code and city name 2 positions for the state abbreviation Host Software city code (up to 4 characters)
MI-OUT1-MILE	5		Total miles returned
MI-OUT1-HOUR	4		Total time in hours (0031) = 3.1 hours
MI-OUT1-COST	7		Total cost for city pair (0052295) = 522.95
FILL158	158		
O256			Blank

2. (Request) The following are field parameters for a state miles request. The purpose of this request is to attain the state-by-state mileage information associated with a trip. (**NOTE:** Copy books have not been coded for the following requests, but PC*MILER will support these requests. For example, if characters SM is inserted into the MIREQ copy variable MI-REQ-TYPE, PC*MILER will return an additional record containing state miles.)

<u>Request from Host</u>	<u>Len</u>	<u>Value</u>	<u>Description</u>
REQTYPE	2	SM	State miles request
REFNUM	10		CICS term id
PARAMS	10		Parameters (10 position field) Pos 1) S or P for shortest or Practical miles Pos 2) M or K for miles or kilometers Pos 3) R = resequence stops H = hub leg miles F = resequence stops fixed destination blank = otherwise Pos 4) M = more data to follow

SEQNUM	4	Pos 5-10) Not used Sequence for multi responses
ERROR	2	Error Code
CITIES	220	Array of 10 cities 22 bytes each Specify city name or 5 digit ZIP Specify ZIP first if ZIP and city is specified 16 positions for ZIP code and/or city name 2 positions for the state abbreviation 4 Host Software city code (up to 4 characters)
FILLER	7	
HOSTREQ	1	Character "R" in position 256

2. (Response) The following are field parameters for the state miles output. The PC will respond with the miles (or kilometers) for the stops indicated in the "SM" request. For each record, mileage for ten (10) states will be returned. If additional records are needed, an "M" in the "MORE" parameters field is used to indicate that there is more data to follow. NOTE: The "HS" request will also cause an "SR" output record to follow the "CP" City Pair output record.

<u>Response from PC</u>	<u>Len</u>	<u>Value</u>	<u>Description</u>
REQTYPE	2	SR	State miles summary
REFNUM	10		CICS term id
PARAMS	10		Parameters (10 position field) Pos 1) S or P for shortest or Practical miles Pos 2) M or K for miles or kilometers Pos 3) R = resequence stops H = hub leg miles F = resequence stops fixed destination blank = otherwise Pos 4) M = more data to follow Pos 5-10) Not used
SEQNUM	4		Sequence for multi responses
ERROR	2	E1	First state not found
		E2	First city not found
		E3	Second state not found
		E4	Second city not found
		E5	Unable to resequence
STATEMIL	220		10 elements each element will consist of: 2 for state code 5 for total miles 4 for toll miles

FILLER 8

3. (Request) Following are parameters for a route info and state miles request. The purpose of this request is to allow the Host to retrieve detailed route information based on the city pair stop-off points.

<u>Request from Host</u>	<u>Len</u>	<u>Value</u>	<u>Description</u>
REQTYPE	2	HS	Routes and State miles
REFNUM	10		CICS term id
PARAMS	10		Parameters (10 position field) Pos 1) S or P for shortest or Practical miles Pos 2) M or K for miles or kilometers Pos 3) R= resequence stops H= hub leg miles F = resequence stops fixed destination blank = otherwise Pos 4) M = more data to follow Pos 5-10) Not used
SEQNUM	4		Sequence for multi responses
ERROR	2		Error code
CITIES	220		Array of 10 cities 22 bytes each Specify city name or 5-digit ZIP Specify ZIP first if ZIP and city is specified 16 positions for ZIP code and/or city name 2 positions for the state abbreviation 4 Host Software city code (up to 4 characters)
FILLER	7		
HOSTREQ	1		Character "R" in position 256

3. (Response) Following are field parameters for a response to the route info and state miles request. The PC response record has all of the detailed route information that is required. There are 4 route list records/response records. Therefore, if there are more than 4 records for the route, additional response records must be returned. Multiple returned records are designated by the "M" in the "MORE" parameter field.

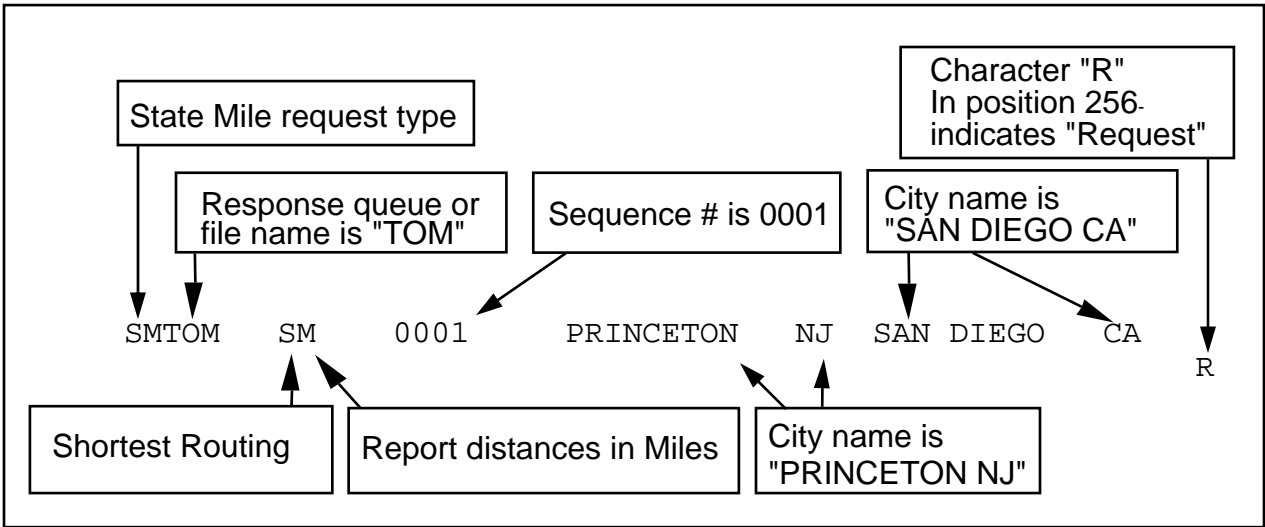
<u>Response from PC</u>	<u>Len</u>	<u>Value</u>	<u>Description</u>
REQTYPE	2	HR	Route highway information returned
REFNUM	10		AS400/SYS38: Job # from ext data struct SYS 36: Field not in use IBM 370 mainframe: userid or account name

PARAMS	10	Windows, Unix: Response file name Wang: user account or not used Parameters (10 position field) Pos 1) S or P for shortest or Practical miles Pos 2) M or K for miles or kilometers Pos 3) R = resequence stops H = hub leg miles F = resequence stops fixed destination blank = otherwise Pos 4) M = more data to follow Pos 5-10) Not used
SEQNUM	4	Sequence for multi responses
ERROR	2	Error code E1 First state not found E2 First city not found E3 Second state not found E4 Second city not found E5 Unable to resequence
ROUTEINFO	224	4 elements, each element will consist of: 2 indicates end of route records for stop 2 state code 2 blanks 1 toll indicator 1 blank 1 directional (n,s,e,w) 1 blank 7 route number 4 leg mileage 2 blank 19 for intersection city or junction 8 for cumulative leg miles 6 for cumulative stop miles
FILLER	4	

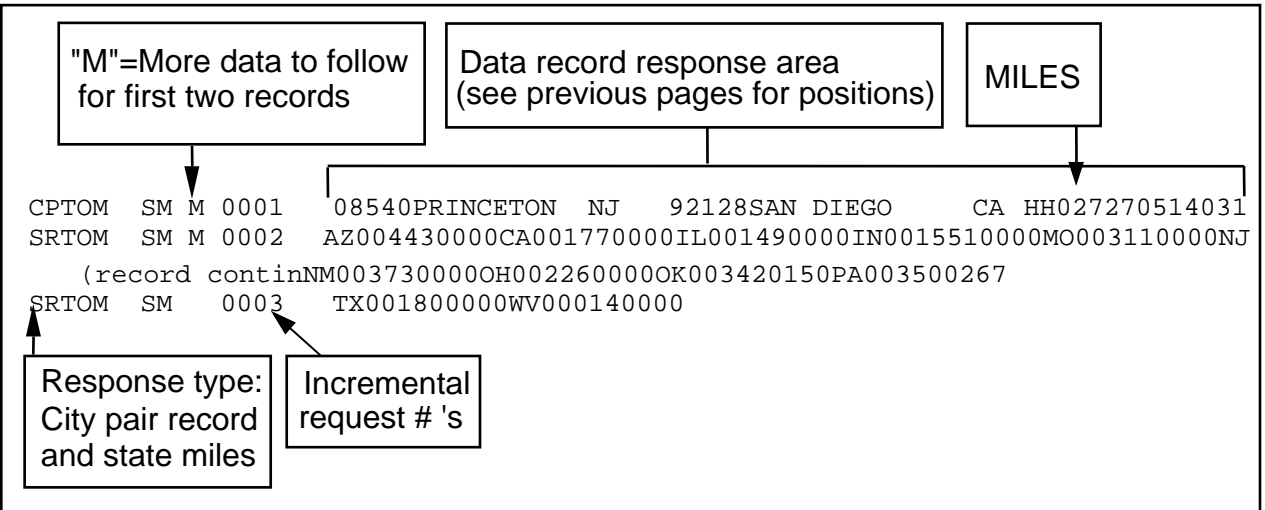
NOTES: The PC will send CP response records for MI requests.
The PC will send CP and SR response records for SM requests.
The PC will send CP, SR, and HR response records for HS requests.

See next page for sample request records.

Sample State mile "SM" request record:



Sample State mile "SR" response record:



Appendix: JCL File

(Used to create the tape for MVS only. ALK has source in Windows PC format for uploading if needed.)

```
//XALK005B JOB (TE,IDB,,2010,1,10),'TAPE JOB',USER=XALK003,
// CLASS=9,MSGCLASS=H,NOTIFY=XALK003,REGION=2048K
//* THIS JCL DOES AN IEBCOPY TO LOAD CICSDEV.ALK.LOADLIB,
//* CICSDEV.ALK.SOURCE AND CICSDEV.ALK.COPYLIB
//* TO TAPE.
/*MOUNTS T=1
*****
//* THIS JOB WILL WRITE ON OLD STYLE REEL TAPE
//* CREATED USING IEBCOPY AS SHOWN BELOW
*****
//BACKUP0 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//IN01 DD DSN=CICSDEV.ALK.LOADLIB,DISP=(SHR)
//*
//OUT01 DD DSN=ALK.LOADLIB,UNIT=(TAPE,1),
// VOL=(,RETAIN,,,SER=560128),
// LABEL=(1,SL,EXPDT=98000),DISP=(,KEEP,DELETE),
// DCB=TRTCH=NOCOMP
//IN02 DD DSN=CICSDEV.ALK.SOURCE,DISP=(SHR)
//*
//OUT02 DD DSN=ALK.SOURCE,UNIT=AFF=OUT01,
// VOL=(,RETAIN,,,REF=*.OUT01),
// LABEL=(2,SL,EXPDT=98000),DISP=(,KEEP,DELETE),
// DCB=TRTCH=NOCOMP
//IN03 DD DSN=CICSDEV.ALK.COPYLIB,DISP=(SHR)
//*
//OUT03 DD DSN=ALK.COPYLIB,UNIT=AFF=OUT01,
// VOL=(,RETAIN,,,REF=*.OUT01),
// LABEL=(3,SL,EXPDT=98000),DISP=(,KEEP,DELETE),
// DCB=TRTCH=NOCOMP
//SYSUT3 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
//SYSUT4 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
//SYSIN DD *
C I=((IN01,R)),O=OUT01
C I=((IN02,R)),O=OUT02
C I=((IN03,R)),O=OUT03
//
// VOL=(,RETAIN),
```