

Technical Support
Knowledge Center Open

如何将时间捕获缓冲数据从 89441A或89410A VSA传输到PC 中？

Notices

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1) 使用FTP协议

要使用这种方法，VSA必须拥有选件UG7“高级局域网支持”以及UFG或UTH扩展RAM。要确定该选件是否存在，按**System Utility > Options Setup**，然后上下滚动选件列表。查看选件旁边的“Installed”栏中是否有“Yes”。操作人员指南描述了在VSA中使用FTP的方法。VSA必须通过有效的ip地址连接到局域网上。

在DOS提示符后，键入：

ftp (VSA的IP地址)

当提示输入用户名和密码时，按 (Enter) 。

登录后，您可以使用如下命令列出根目录的内容：

ftp> ls

根目录下有四个目录，它们是int（软盘）、nvram、ram和data。您不能在根目录或数据目录下建立其他目录。时间捕获数据位于数据目录下，因此键入：

ftp> cd data

ftp> get tcap.dat

下面是一个DOS窗口界面示例：

```
C:\Documents and Settings\begin>ftp 156.140.151.100
Connected to 156.140.151.100.
220 HP89410A FTP version 930507 (KA9Q) ready at Mon Jan 08 18:13:41 2007
User (156.140.151.100:(none)):
331 Enter PASS command
Password:
230 Logged in
ftp> ls
200 Port command okay
150 Opening data connection for NLST /
int          0      DIR 01-01-93   08:00:00 AM
nvram        0      DIR 01-01-93   08:00:00 AM
ram          0      DIR 01-01-93   08:00:00 AM
data         0      DIR 01-01-93   08:00:00 AM
226 File sent OK
ftp: 217 bytes received in 0.01seconds 14.47kbytes/sec.
ftp> cd data
257 "/data" is current directory
ftp> get tcap.dat
200 Port command okay
100 warning: type is ASCII and /data/tcap.dat appears to be binary
```

2) 使用MMEM:DATA? 查询

在这种情况下，首先将时间捕获缓冲器中的数据传输到另一个存储器（例如RAM）中。下面是完成该步骤的代码行示例：

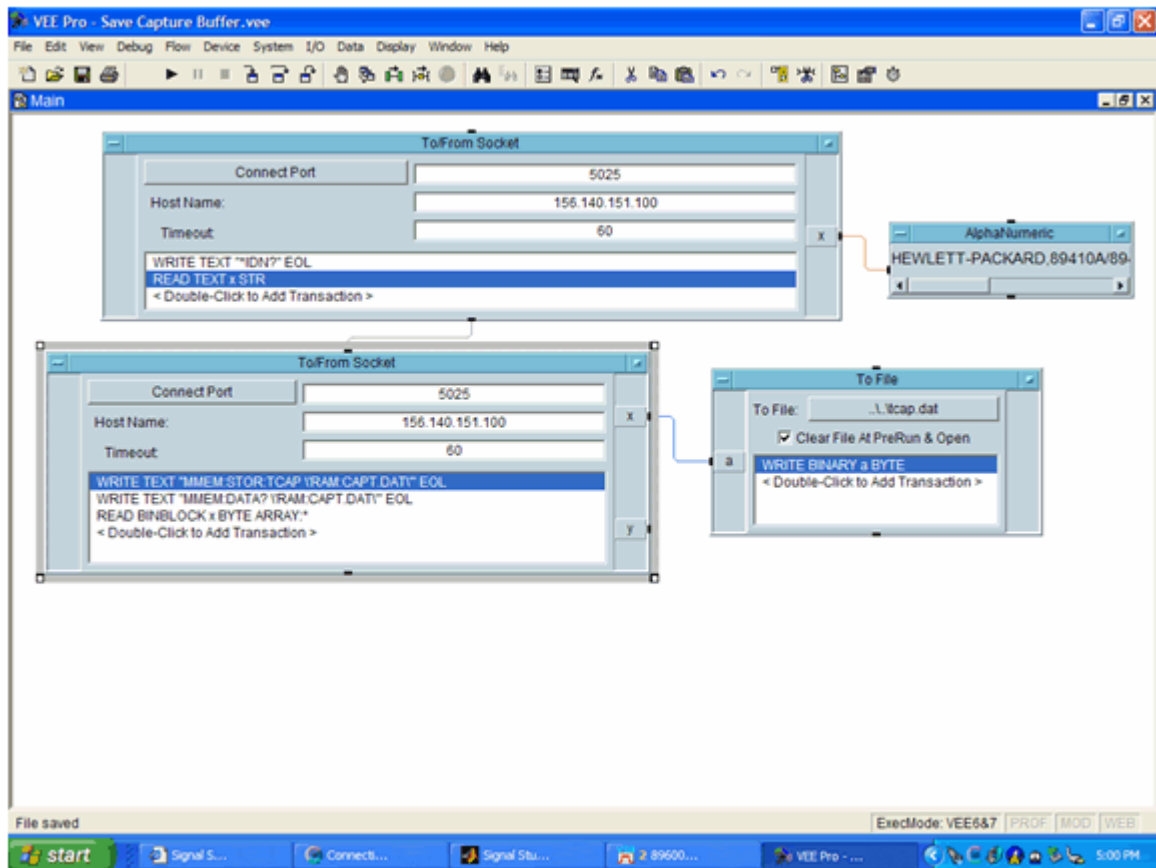
MMEM:STOR:TCAP 'RAM:tcap.dat'

然后使用下面的代码行读回该数据：

MMEM:DATA? 'RAM:tcap.dat'

结果文件还是SDF格式，因此必须使用SDF工具将其转换成ASCII格式文件。这些是原始数据，包括标

题信息。这些命令的详细用法请参见我们网站（链接在本文结尾部分）上的89400系列GPIB命令参考。下图是使用这些命令时的VEE程序的屏幕快照，该程序的链接同样也在本文结尾部分。



此方法以ASCII格式返回实部和虚部电压对，因此可以省去使用SDF工具的转换步骤。（数据也可以作为实数返回，由于是二进制形式，速度会更快。然后，您可以在程序中把它转换成ASCII形式。）它是不含标题信息的格式化数据。请参见此处的程序命令屏幕快照和本文结尾部分的两个VEE程序链接。这两个VEE程序一个返回ASCII数据，另一个返回实数数据。程序命令为：

SENSe:DATA? TCAP1

返回数据

SENSe:DATA:HEAD:POINTs?

返回缓冲器中的测量点数量。

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