Sun Fire™ E2900/V1280 Systems
PCI+ Product Notes

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**Note** – For proper operation, you must reinstall the Solaris Operating System once the I/O assembly which adds support for PCI+ is installed in a system. For Solaris 9 OS, reinstall using Solaris 9 9/05 or later versions; for Solaris 10 OS, use Solaris 10 3/05 HW1 or later versions.

These product notes provide detailed procedures on how to correct duplicate MAC addressing when Sun Fire E2900/V1280 systems are upgraded to the PCI+ I/O Assembly (IB_SSC assembly).

For Sun Fire E2900/V1280 systems upgraded to support PCI+, if a customer wants to run IP Multipathing and has the EEPROM variable, local-mac-address? set to true, then the current version of OpenBoot™ PROM assigns the same MAC addresses to both integral Ethernet interfaces.

To correct the duplicate MAC addresses, an OpenBoot PROM command must be created and run from the ok prompt each time the system is booted.
The procedure is to enter the following at the \texttt{ok} prompt:

**CODE EXAMPLE 1  Adding the add-local-mac Command**

\begin{verbatim}
ok : add-local-mac
  " /ssm@0,0/pci@18,700000/network@1" begin-select-dev
  " local-mac-address" delete-property
  mac-address encode-bytes " local-mac-address" property
  end-select-dev

  " /ssm@0,0/pci@18,700000/network@3" begin-select-dev
  " local-mac-address" delete-property
  mac-address over 5 ca+ dup c@ 1 + swap c!
  encode-bytes " local-mac-address" property
  end-select-dev
  mac-address drop 5 ca+ dup c@ 1 - swap c!
;
\end{verbatim}

When you enter the text as shown in Code Example 1, the command \texttt{add-local-mac} is created. When this command is created, it must be run once. After the command is run once, the system should be rebooted and the Ethernet interfaces will have the appropriate MAC addresses.

**Note** – The \texttt{add-local-mac} command must be run once, following each system reboot.

The following is an example of the \texttt{add-local-mac} command entered on a system once the command has been created and the system booted:

**CODE EXAMPLE 2  Running the add-local-mac Command**

\begin{verbatim}
{10} ok : add-local-mac
  " /ssm@0,0/pci@18,700000/network@1" begin-select-dev
  " local-mac-address" delete-property
  mac-address encode-bytes " local-mac-address" property
  end-select-dev

  " /ssm@0,0/pci@18,700000/network@3" begin-select-dev
  " local-mac-address" delete-property
  mac-address over 5 ca+ dup c@ 1 + swap c!
  encode-bytes " local-mac-address" property
  end-select-dev
  mac-address drop 5 ca+ dup c@ 1 - swap c!
}
{10} ok add-local-mac
{10} ok
\end{verbatim}