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 No warranty is given.
 Use it at your own risk.
 Version 305
 09. August 2016

This version of PPD displays all named processes from the Process Pair Directory of a local or remote system. It supports wildcards where ever meaningful.

In addition it sorts the list of found processes by

- Process name (node name and process name)
- Mom's name (node name, mom's name and process name)
- PID (node name and primary PID)
- Object name (node name, object name and process name)
- Program file (node name, object name and process name)
- Start time (start time of process)

Command syntax is:

```
[run] PPD [/OUT <out-file>/] [<process>] [BY MOM|BY PID|BY NAME|BY OBJECT]
[ IOPROC]
[WHERE MOM|ANCESTOR <$name>|<PIN>]
[WHERE OBJECT <file>]
```

where

- **process** can start with a node name, where node name supports wildcards; e.g.:
 ginkgo
 ***be?**

When node name part is missing, the local node is used.

The node name can be followed by a process name, starting with the \$-sign, or a PID number.

The process name supports wildcards, while the PID does not; e.g.:

```
$W*
12,5632
```

When the process is not defined, all named processes from \node are displayed.

Supported process definitions:

\node	node supports wildcards; all processes from matching \node are displayed
\node.\$name name	node and name support wildcards; all matching processes from all matching nodes are displayed
\node.nn,mm	no wildcard support here; whether the node nor the PID supports wildcards
\$name name	name supports wildcards; all matching processes from the local node are displayed
nn,mm	no wildcard support here; the PID does not support wildcards

- **BY MOM** sorts the processes by their node name and MOM
- **BY NAME** sorts the processes by their node name and process NAME
- **BY PID** sorts the processes by their node name and PIN
- **BY OBJECT** sorts the processes by their object file name
- **BY STARTTIME** sorts the processes by their start time
- **IOPROC** causes PPD to list I/O processes as well

- WHERE MON or
 WHERE ANCESTOR displays only processes with a matching MOM/ANCESTOR.
 A no longer existing ancestor is displayed in brackets.
 A named MOM supports wildcards, e.g.:
 PPD \beech.\$* WHERE MOM \$SPLS

- WHERE OBJECT displays only processes, started from the defined object file.
 The object file name supports wildcards, e.g.:
 PPD *.\$TU* WHERE OBJECT \$SYS*.SYS??.TACL*

Accessing remote systems takes some time.
 e.g. the command:

```
PPD \*.$*
```

may take even minutes, when there are many systems with many named processes in the EXPAND network!

The intention of adding EXPAND support for this tool is, to quickly display equal named processes from a set of defined system, e.g.:

```
PPD \DEV*.$GHSP*
```

This displays all processes, where the name starts with \$GHSP from all systems, where the EXPAND name starts with \DEV.

A typical output for a local system looks like this:

```
$GHS1 SECOM700 1> ppd $s*
PPD (305) - T7172L06 - (09Aug2016) System \OAK, running NSK L06.04
Copyright (c) GreenHouse Software & Consulting 1999-2016

Used search string: $S*

Name      Primary  Backup  Ancestor  Object File      StartTime
$SECCT    0,416   0,416   $ZPM      $GHS1.SECOM700.SECOMCTX  08:33:37
$SPLS     0,36    1,56    [$Z02R]   $SYSTEM.SYSTEM.SPOOL    08:35:32
$$        0,464   1,483   $SPLS     $SYSTEM.SYSTEM.CSPOOL    08:35:32
$SP       0,465   1,482   $SPLS     $SYSTEM.SYSTEM.CSPOOL    08:35:33
Number of matches: 4
$GHS1 SECOM700 2>
```

Addressing the process name along with the node name shows this result:

```
$GHS1 SECOM700 3> ppd \oak.$s*
PPD (305) - T7172L06 - (09Aug2016) System \OAK, running NSK L06.04
Copyright (c) GreenHouse Software & Consulting 1999-2016

Used search string: \OAK.$S*

Node      Name      Primary  Backup  Ancestor  Program File
\OAK     $SECCT    0,416   0,416   $ZPM      $GHS1.SECOM700.SECOMCTX
\OAK     $SPLS     0,36    1,56    [$Z02R]   $SYSTEM.SYSTEM.SPOOL
\OAK     $$        0,464   1,483   $SPLS     $SYSTEM.SYSTEM.CSPOOL
\OAK     $SP       0,465   1,482   $SPLS     $SYSTEM.SYSTEM.CSPOOL
Number of matches on \OAK: 4
Matching nodes: 1
$GHS1 SECOM700 4>
```

A typical output for a network wide PPD looks like this:

```
$SYSCT1.DE139274 7> ppd \*.$GHSP* BY NAME
PPD (304) - T7172H06 - (09May2016) System \OL8, running NSK H06.26
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```

Used search string: *.\$GHSP* sorted by PROC name

Node	Name	Primary	Backup	Ancestor	Program File
\EN5	\$GHSPI	0,1179	1,720	\$ZPM	\$SYSTEM.PSSHELL.PINew
Number of matches on \EN5 : 1					
\EN6	\$GHSPI	0,1249	1,1732	\$ZPM	\$SYSTEM.PSSHELL.PINew
Number of matches on \EN6 : 1					
\EN7	\$GHSPI	0,1591	1,702	\$ZPM	\$SYSTEM.PSSHELL.PINew
\EN7	\$GHSPS	0,1299		\$ZSMP	\$SYSTEM.PSSHELL.PSSHELL
Number of matches on \EN7 : 2					
\OL5	\$GHSPI	0,1012	1,1007	\$ZPM	\$SYSTEM.PSSHELL.PINew
Number of matches on \OL5 : 1					
\OL6	\$GHSPI	0,976	1,1344	\$ZPM	\$SYSTEM.PSSHELL.PINew
\OL6	\$GHSPS	0,1166		\$ZSMP	\$SYSTEM.PSSHELL.PSSHELL
Number of matches on \OL6 : 2					
\OL7	\$GHSPI	0,536	1,1650	\$ZPM	\$SYSTEM.PSSHELL.PINew
Number of matches on \OL7 : 1					
\OL8	\$GHSPI	0,2145	1,1642	\$ZPM	\$SYSTEM.PSSHELL.PINew
\OL8	\$GHSPS	0,2126		\$ZSMP	\$SYSTEM.PSSHELL.PSSHELL
Number of matches on \OL8 : 2					

Feel free to use this tool, and in case you stumble into problems, please let me know, and I'll fix it.

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178. August 2016

The SELECT utility from Kari can do this too (and a lots of other things) e.g.

```
SELECT PROCESS \node NAME,CPU,PIN,ANCESTOR,PROGRAM where NAME like $A?o*
```

This command could be hidden in a small TACL macro.
(In the next version this is even more straightforward):

```
SELECT PROCESS $A?0* NAME,CPU,PIN,ANCESTOR,...)
```