

Products

A Ujb

DFC8I 7H=B: C.

Dfc' / '6i g]bYgg': YUhi fYg

Dfc' Cb' ]bY' FYgi 'h6fck gYf

HYW bc' c[ mDUfhbYfg

DFC8I 7H'89H5=@G.

HAY'HYghg

GmghYa 'FYVta a YbXU]hcbg

; 5@@9FM

FYj ]Yk g

GI DDCFH/ 'F9GCI F79G.

Gi ddcfh/ ' : 5E

D7A Uf\_\$( 'DUHW' fP&\$t' =bZc

K \ ]hYdUdYf

I G5; 9/ '8=GHF=6I H=CB.

I gU[ Y/ '8]ghf]Vi h]cb'

; i ]XY' ]bYg

DI F7<5G9/ ' /

8CK B@C58G.

Di fW Ugy' Dfc' fBck b'cUXt

Di fW Ugy' Dfc' f78! FCA t

Di fW Ugy' Dfc' fi d[ fUXYt

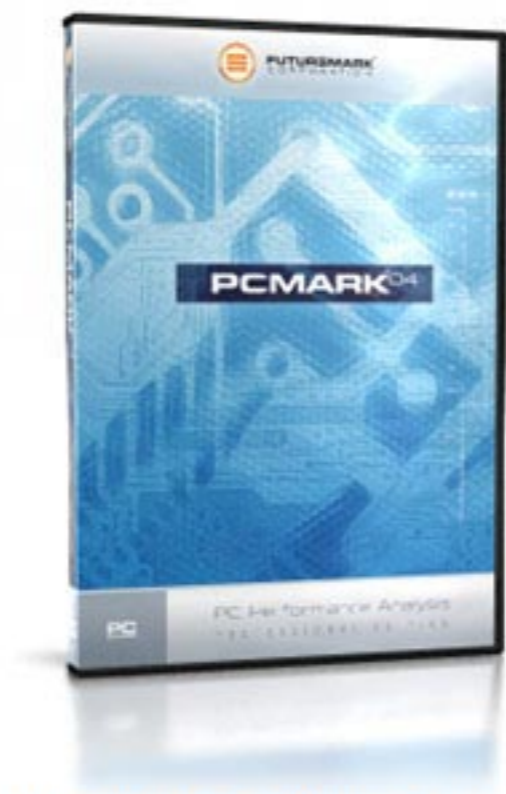
Di fW Ugy' '6i g]bYgg' 9X]h]cb' fBck b'cUXt

Di fW Ugy' '6i g]bYgg' 9X]h]cb' f78! FCA t

8ck b'cUX: fYY' J Yfg]cb

Benchmarks

PCMARK04



: cf'df]j UHy' i gY.

D7A Uf\_\$( 'Dfc' fBck b'cUXt. ~%- "-) | G8' 7@-7? 'HC' 6I M'

D7A Uf\_\$( 'Dfc' f78! FCA t. ~&- "-) | G8' 7@-7? 'HC' 6I M'



? YmiD7A Uf\_\$( 'Dfc' UbX' '6i g]bYgg' : YUhi fYg ... GmghYa 'HYghGi ]hZ' dfYgYb]b[ 'hAY' D7A Uf\_ gVt'fY' ... A Ya cfmHYghGi ]hZ' [ ] ]b[ 'A Ya cfm gVt'fY' ... 7DI 'HYghGi ]hZ' [ ] ]b[ '7DI' gVt'fY' ... fUd\ ]Vg' hYghGi ]hZ' [ ] ]b[ 'U: fUd\ ]Vg' gVt'fY' ... <88' HYghGi ]hZ' UbX' <88' gVt'fY' ... 7i ghca ]nUV' Y' hYghfi b ]bW X]b[ ' a i 'h]h' fYUXYX' hYghg' ... Cb' ]bY' gYfj ]Wg' Gi Va ]h' mci f' fYgi 'hg' UbX' Vta dUFY' h' Ya 'hc' D7A Uf\_\$( 'fYgi' hg' Z'ca 'U' 'cj Yf' h' AY' k' cf' X''

PCMARK04 WAS BUILT USING THE FOLLOWING THIRD PARTY SOFTWARE COMPONENTS:



5g'k ]h' U' : i hi fYa Uf\_ ]b]hYfbYH YbUV' YX' VYbW' a Uf\_ gZ' D7A Uf\_\$( ' \ Ug' VYYb' WYUHYX' ]b' VtcdYfU]h]cb' k ]h' ci f' 68D' a Ya VYfg' ]b' cfXYf' hc' dfcj ]XY' mci 'k ]h' h' Y' VYgh' d' cgg] V' Y' UbX' a' cgh' fY' ]UV' Y' gYh' cZ' X]U[ bcgh] W' h' c' g'

D7' DYfZcfa UbW' 5bU'ng]g

D7A Uf\_! \$( ' ]g' h' Y' ' UH' Yghj Yfg]cb' cZ' h' Y' dcdi 'Uf' D7A Uf\_ gYf]Yg' D7A Uf\_\$( ' ]g' Ub' Udd' ]W]h]cb' ! VUgYX' VYbW' a Uf\_ ' UbX' U' dfYa ]i a 'hc' ' Zcf' a YUgi f]b[ ' cj YfU' ' D7' dYfZcfa UbW' ' =hi gYg' d' cfh]cbg' cZ' fYU' Udd' ]W]h]cbg' ]bghYUX' cZ' ]bW' X]b[ ' j Yfm' Uf[ Y' Udd' ]W]h]cbg' cf' i g]b[ ' gdYV]Z]W] ' mWYUHYX' VtXY' ' H' ]g' U' c' k' g' D7A Uf\_\$( ' hc' VY' U' ga U' Yf' ]bghU' ' U]h]cb' Ug' k Y' ' Ug' hc' fYdcfhj Yfm' U' V' W' fUHY' fYgi 'hg' ' 5g' Z' f' Ug' d' cgg] V' YZ' D7A Uf\_\$( ' i gYg' di V' ]WXca U]b' Udd' ]W]h]cbg' k \ cgY' gci fW' VtXY' W]b' VY' Z' FYY' mYI Ua ]bYX' VmUbmi gYf''

Dfc' Cb' ]bY' FYgi 'h6fck gYf

HAY' Dfc' Cb' ]bY' FYgi 'h6fck gYf' f' CF 6t' ]g' XYg] bYX' UbX' XYj Y' cdYX' gdYV]U' mZcf' D7A Uf\_\$( ' Dfc' UbX' D7A Uf\_\$( ' 6i g]bYgg' i gYfg' ' =b' UXX]h]cb' hc' h' Y' bcfa U' Z' bW]h]cbU' ]h]Yg' mci ' W]b' Xc' a i ' h' d' Y' Vta dUF]gcbgZ' [ Yh' XYH] ]YX' gmghYa ' ]bZc' i gY' XnbUa ]W]h]cb' dUFY' i F@g' UbX' a i W' a i W' a cfY' ' HAY' Dfc' CF 6' YI hYbXg' D7A Uf\_\$( ' hc' h' Y' YI hfYa Y''

HAY' YI hYbXYX' D7A Uf\_\$( ' CF 6' ZYUhi fYg' UfY' cb' mUj U]UV' Yj ]U' D7A Uf\_\$( ' Dfc' UbX' D7A Uf\_\$( ' 6i g]bYgg'

: cf' 6i g]bYgg' UbX' Vta a YfV]U' i gY.

D7A Uf\_\$( '6i g]bYgg' fBck b'cUXt. ~%- "-) | G8' 7@-7? 'HC' 6I M'

D7A Uf\_\$( '6i g]bYgg' f78! FCA t. ~&\$) "-) | G8' 7@-7? 'HC' 6I M'



A ]b]a i a 'GmghYa' fYei ]fYa Yb]g' ... I , \* Vta dU]h]V' Y' d' fcW' ggc' fZ' %\$\$\$A <n' ... %&, A 6' gmghYa ' a Ya cfm' ... \* \$A 6' cZ' \ UfX' X]g\_ ' gdUW' f' UbX' UXX]h]cbU' % \$' A 6' Z' FYY' gdUW' Zcf' <88' hYgh]b[ t' ... 8] fYVW' + [ YbYfU]h]cb [ fUd\ ]Vg' U' X' UdhYf' h' U]h]g' Z' ' m8] fYVW' + Vta d' ]Ubh'' ... A ]W' cgc' Z' h' K' ]bXck g' &\$\$\$' cf' L' D' cdYfU]h]b[ ' gmghYa ' ... 8] fYVW' - '\$' cf' U' hYf''

' 8A Uf\_\$( ' Dfc

Dfc' 8ck b'cUX. ~%- "-) | G8' 7@-7? 'HC' 6I M'

Dfc' 78! FCA. ~&- "-) | G8' 7@-7? 'HC' 6I M'

' 8A Uf\_&\$\$%G9' Dfc

Dfc' 8ck b'cUX. ~%( "-) | G8' 7@-7? 'HC' 6I M'

Dfc' 78! FCA. ~%- "-) | G8' 7@-7? 'HC' 6I M'

D7A Uf\_\$( ' Dfc

Dfc' 8ck b'cUX. ~%- "-) | G8' 7@-7? 'HC' 6I M'

Dfc' 78! FCA. ~&- "-) | G8' 7@-7? 'HC' 6I M'

6YbW' a Uf\_ Yfg' Dfc' DUW' 78' 7c' YW]h]cb

' 8A Uf\_\$( ' DfcZ' 8A Uf\_&\$\$%G9' DfcZ' D7A Uf\_\$( ' Dfc.

~( - "-) | G8' 7@-7? 'HC' 6I M'

GMGa Uf\_&\$\$(\$

8J8! FCA' Cb' m' ' - - "-) | G8' 7@-7? 'HC' 6I M'

GMGa Uf\_&\$\$&

78! FCA' Cb' m' ~%- "-) | G8' 7@-7? 'HC' 6I M'

A cV] YA Uf\_&\$\$&

78! FCA' Cb' m' ~&(- "-) | G8' 7@-7? 'HC' 6I M'

65D7c' Gi ]hY' &\$\$(\$

GMGa Uf\_&\$\$(\$ Z' A cV] YA Uf\_&\$\$&Z' A cV] YA Uf\_&\$\$(\$ f]g\ ]dd]b[ ' i dcb' fY' YUgYtZ' K YVA Uf\_&\$\$(\$

~, - - "-) | G8' 7@-7? 'HC' 6I M'

Products

A U]b

DFC 8I 7H' =B: C.

Dfc / '6i g]bYgg: YUhi fYg

Dfc 'Cb]bY fYgi 'h6fck gYf

HYWbc'c[ mDUfthYfg

DFC 8I 7H' 89H5=@G.

H\Y HYghg

GmghYa 'FYWta a YbXUHjcbg

; 5@9FM

FYj ]Yk g

GI DDCFH/ 'F 9GCI F 79G.

Gi ddcfh/ ' : 5E

D7A Uf\_\$( 'DUHW 'fP&\$t' =bZc

K \]hYdUdYf

I G5; 9/ '8 =GHF =6I H=CB.

I gU[ Y/ '8]ghf]Vi h]cb

; i ]XY]bYg

DI F7<5G9/ '8CK B@C58G.

Di fVWUgY 'Dfc 'fBck b'cUXt

Di fVWUgY 'Dfc fI78!FCA t

Di fVWUgY 'Dfc fI d[ fUXYt

Di fVWUgY '6i g]bYgg 9X]h]cb

fBck b'cUXt

Di fVWUgY '6i g]bYgg 9X]h]cb

fI78!FCA t

8ck b'cUX: fYY J Yfg]cb

Benchmarks

PCMARK<sup>04</sup>

D7A Uf\_\$( 'Dfc 'UbX '6i g]bYgg: YUhi fYg

D7 'DYfZcfa UbW '5bU'mg]g

D7A Uf\_\$( 'jg'hY' 'UHghj Yfg]cb'cZ'hY'dcddi 'Uf'D7A Uf\_'gYf]Yg" D7A Uf\_\$( 'jg'U'dfYa ]i a 'hc' 'Zcf' a YUgi f]b[ 'Vch' 'bcfa U' 'ca Y'i gY'UbX'g]a d'Y' '8'dYfZcfa UbW 'cZ'hY' 'UHghj D7 '\UfXk UfY"

D'YUgY 'bchY' h'Uh'U' 'hY' 'hYghg/ 'cdh]cbg' ]ghYX' VY'ck 'Wb'cb'mVY'UWV'ggYX ]b'D7A Uf\_\$( ' DfcZYgg]cbU' 9X]h]cb'cf' h'Y' '6i g]bYgg 9X]h]cb"

Df]a UfmD7A Uf\_\$( 'Dfc 'UbX '6i g]bYgg: YUhi fYg.

---GmghYa 'HYgh'Gi ]hY'z' dfYgYbh]b[ 'h'Y' 'D7A Uf\_'gVt'fY"

---A Ya cfmHYgh'Gi ]hY'z' [ ]j ]b[ 'A Ya cfm]gVt'fY"

---; fUd\ ]Wg'HYgh'Gi ]hY' ]bW' X]b[ ' &8'UbX' '8' Vt'bhYb'z' [ ]j ]b[ ; fUd\ ]Wg'gVt'fY"

---< 88'HYgh'Gi ]hY' UbX' < 88' gVt'fY"

---GmghYa ' =bZc'z'g'ck ]b[ 'mci f' D7 '\UfXk UfY'UbX' gmghYa 'gcZk UfY' ]b'XYHJ]"

---i 'm'W'ghca ]hU'V'Y' VYbW'a Uf\_]b[ 'V'm'W'ccg]b[ 'h'Y'XYg]fYX' hY'ghg'UbX' gYf]h]b[ g'Zcf' h'Y' VYbW'a Uf\_'fi b"

---Dcgg]V] ]h'hc' gY'VW'k \ ]W' hY'ghg' UfY' fi b'g]a i 'HUbYci g'ma i 'h]h'fYUXYX"

---; i 'Vt'bhfc' 'c] Yf' h'Y' VYbW'a Uf\_'X]gd'Um'Vt'bZ]i fUh]cbz' ]bW' X]b[ 'fYgc' i h]cbz'Vt'ci f'dU'YHhYz' Ubh]U' ]Ug]b[ 'UbX' hY' i fY'Z]hYf]b[

---Cb' ]bY' gYf] ]W'g" Gi Va ]h'mci f' fYgi 'hg'UbX' Vt'a dUfY' h'Ya 'hc' D7A Uf\_\$( 'fYgi 'hg'Zcfa 'U' 'c] Yf' h'Y'k'cf'X"

---D7A Uf\_\$( 'Dfc'CF6"

---8YHJ]YX' fYgi 'h' ]bZcfa U]h]cbz' d'cgg]V] ]h'hc' YI dcfh'fYgi 'hg'hc' A ]W'cgcZi'9I W'"

K \]W' J Yfg]cb' =g' h\Y' f] [ \h'CbY'Zcf' Mti 3

D7A Uf\_\$( 'jg'Uj U]UV'Y' ]b' h'c'z' 'j Yfg]cbg. 'D7A Uf\_\$( 'Dfc'z'k \]W' ]g' ]W'bgYX'Zcf'df]j UH' i gYz' UbX' D7A Uf\_\$( '6i g]bYggz'k \]W' ]g' ]W'bgYX'Zcf'Vi g]bYgg'UbX' Vt'a a YfVU' i gY' =b' UXX]h]cb' hc' h'Y'gYz'k Y'cZyf' U' ]a ]hYX'Z' bW]cbU' ]m'Z'fY' Yj U' i U]h]cb'j Yfg]cb"

J Yfg]cb' 7ca dUf]gcb

	D7A Uf_! \$( ' fYY' J Yfg]cb	D7A Uf_! \$( ' Dfc' J Yfg]cb	D7A Uf_! \$( ' 6i g]bYgg' J Yfg]cb
HYgh'7cbZ]i fU]h]cb	Bc	Mg	Mg
6YbW'a Uf_'GYH]b[ g	Bc	Mg	Mg
7i ghca 'Gi ]hY	Bc	Mg	Mg
< 88'HYgh'Gi ]hY' UbX' < 88' gVt'fY	Bc	Mg	Mg
A Ya cfmHYgh'Gi ]hY' UbX' A Ya cfm]gVt'fY	Bc	Mg	Mg
; fUd\ ]Wg'HYgh'Gi ]hY' ]bW' X]b[ ' &8'UbX' '8	Bc	Mg	Mg
7DI 'HYgh'Gi ]hY' UbX' 7DI 'gVt'fY	Bc	Mg	Mg
Dfc 'Cb]bY'GYf] ]W'g	Bc	Mg	Mg
HYWb]W' 'Gi ddcfh	Bc	Mg	Mg
9I dcfh'hc' A G'9I W'	Bc	Mg	Mg
HcHJ' D7A Uf_'gVt'fY	Mg	Mg	Mg

Mti 'a UmdI fVWUgY 'D7A Uf\_\$( 'DfcZYgg]cbU' 9X]h]cb'UbX' '6i g]bYgg 9X]h]cb'Zcfa 'ci f'Cb' ]bY'GhcfY"

**BchY.** 'D7A Uf\_\$( 'fYeI ]fYg'hY' 'UHghj Yfg]cbg'cZ'8]fYWL'z' A ]W'cgcZi' A YX]U' D'Um'fz' A ]W'cgcZi' A YX]U' 9b'Vt'XYf'UbX' A ]W'cgcZi' =bhYfbY'h'9I d'cfYf" D'YUgY' fYUX' h'Y' GmghYa 'FYWta a YbXUHjcbg'Zcf' a cfY' ]bZc"

' 8A Uf\_\$( 'Dfc

Dfc'8ck b'cUX. ~%- "-) I G8'7@-7?'HC'6I M'

Dfc'78!FCA.

~&- "-) I G8'7@-7?'HC'6I M'

' 8A Uf\_&\$\$%G9'Dfc

Dfc'8ck b'cUX. ~%( "-) I G8'7@-7?'HC'6I M'

Dfc'78!FCA.

~%- "-) I G8'7@-7?'HC'6I M'

D7A Uf\_\$( 'Dfc

Dfc'8ck b'cUX. ~%- "-) I G8'7@-7?'HC'6I M'

Dfc'78!FCA.

~&- "-) I G8'7@-7?'HC'6I M'

6YbW'a Uf\_'Yfg'Dfc'DUW' 78'7c'YW]cb

' 8A Uf\_\$( 'Dfcz' 8A Uf\_&\$\$% G9'Dfcz'D7A Uf\_\$( 'Dfc.

~(- "-) I G8'7@-7?'HC'6I M'

GMGa Uf\_'&\$\$(\$

8J8!FCA'Cb'm ~' - "-) I G8'7@-7?'HC'6I M'

GMGa Uf\_'&\$\$&

78!FCA'Cb'm ~%- "-) I G8'7@-7?'HC'6I M'

A cV]YA Uf\_'&\$\$&

78!FCA'Cb'm ~&(- "-) I G8'7@-7?'HC'6I M'

65D7c'Gi ]hY' &\$\$(\$

GMGa Uf\_'&\$\$(\$z' A cV]Ya Uf\_'&\$\$&z' A cV]YA Uf\_' &\$\$(\$'fg\]dd]b[ 'i dcb'fY'YUgYtZ' K YVA Uf\_'&\$\$(\$.

~, - "-) I G8'7@-7?'HC'6I M'