

Table 6 Pairwise comparison of dominant cases ($\frac{A}{B}$) for direct algorithms in three groups

$\begin{smallmatrix} B \\ A \end{smallmatrix}$	MPCC	WDP	MDP	eMDP	TWDP	TMDP	eTMDP	ETMDP
WDP	$\frac{105}{67}/\frac{90}{64}/\frac{71}{79}$	-	-	-	-	-	-	-
MDP	$\frac{101}{66}/\frac{93}{63}/\frac{73}{78}$	$\frac{90}{91}/\frac{76}{79}/\frac{77}{78}$	-	-	-	-	-	-
eMDP	$\frac{55}{94}/\frac{82}{70}/\frac{69}{82}$	$\frac{42}{107}/\frac{53}{99}/\frac{64}{87}$	$\frac{44}{106}/\frac{57}{95}/\frac{59}{91}$	-	-	-	-	-
TWDP	$\frac{118}{57}/\frac{92}{64}/\frac{78}{73}$	$\frac{99}{81}/\frac{81}{76}/\frac{80}{77}$	$\frac{99}{81}/\frac{62}{96}/\frac{80}{76}$	$\frac{109}{40}/\frac{95}{57}/\frac{86}{65}$	-	-	-	-
TMDP	$\frac{110}{63}/\frac{98}{80}/\frac{80}{71}$	$\frac{95}{89}/\frac{88}{72}/\frac{85}{69}$	$\frac{99}{86}/\frac{77}{77}/\frac{81}{73}$	$\frac{107}{42}/\frac{98}{54}/\frac{85}{65}$	$\frac{85}{92}/\frac{84}{71}/\frac{84}{73}$	-	-	-
eTMDP	$\frac{61}{88}/\frac{73}{80}/\frac{77}{74}$	$\frac{55}{94}/\frac{44}{107}/\frac{69}{82}$	$\frac{52}{98}/\frac{43}{109}/\frac{75}{75}$	$\frac{89}{72}/\frac{66}{85}/\frac{79}{73}$	$\frac{41}{109}/\frac{53}{99}/\frac{72}{80}$	$\frac{47}{103}/\frac{45}{106}/\frac{72}{79}$	-	-
ETMDP	$\frac{110}{62}/\frac{100}{56}/\frac{78}{74}$	$\frac{100}{77}/\frac{84}{71}/\frac{85}{73}$	$\frac{104}{78}/\frac{85}{76}/\frac{83}{74}$	$\frac{110}{39}/\frac{105}{50}/\frac{87}{63}$	$\frac{93}{89}/\frac{97}{59}/\frac{82}{76}$	$\frac{102}{79}/\frac{91}{68}/\frac{80}{74}$	$\frac{107}{43}/\frac{106}{44}/\frac{81}{70}$	-
eETMDP	$\frac{22}{130}/\frac{27}{129}/\frac{32}{119}$	$\frac{14}{140}/\frac{13}{138}/\frac{14}{139}$	$\frac{18}{135}/\frac{16}{137}/\frac{15}{135}$	$\frac{63}{86}/\frac{26}{126}/\frac{36}{115}$	$\frac{12}{139}/\frac{16}{136}/\frac{18}{134}$	$\frac{19}{136}/\frac{19}{132}/\frac{19}{134}$	$\frac{13}{87}/\frac{11}{118}/\frac{15}{124}$	$\frac{14}{137}/\frac{12}{141}/\frac{14}{138}$

Table 7 Pairwise comparison of dominant cases ($\frac{A}{B}$) for relaxation algorithms in three groups

$\begin{smallmatrix} B \\ A \end{smallmatrix}$	MPCC	WDP	MDP	eMDP	TWDP	TMDP	eTMDP	ETMDP
WDP	$\frac{133}{15}/\frac{128}{26}/\frac{112}{38}$	-	-	-	-	-	-	-
MDP	$\frac{139}{9}/\frac{126}{29}/\frac{111}{39}$	$\frac{100}{86}/\frac{104}{97}/\frac{71}{95}$	-	-	-	-	-	-
eMDP	$\frac{132}{16}/\frac{114}{37}/\frac{71}{79}$	$\frac{60}{98}/\frac{57}{113}/\frac{13}{137}$	$\frac{50}{108}/\frac{58}{112}/\frac{12}{138}$	-	-	-	-	-
TWDP	$\frac{136}{12}/\frac{127}{28}/\frac{101}{49}$	$\frac{91}{94}/\frac{106}{98}/\frac{53}{109}$	$\frac{92}{90}/\frac{105}{100}/\frac{54}{106}$	$\frac{103}{51}/\frac{106}{61}/\frac{133}{17}$	-	-	-	-
TMDP	$\frac{135}{13}/\frac{129}{25}/\frac{100}{50}$	$\frac{98}{92}/\frac{101}{105}/\frac{53}{107}$	$\frac{93}{90}/\frac{99}{102}/\frac{58}{102}$	$\frac{99}{55}/\frac{112}{59}/\frac{132}{19}$	$\frac{100}{90}/\frac{103}{105}/\frac{74}{90}$	-	-	-
eTMDP	$\frac{127}{21}/\frac{115}{36}/\frac{70}{80}$	$\frac{60}{100}/\frac{62}{108}/\frac{13}{137}$	$\frac{49}{110}/\frac{63}{110}/\frac{11}{140}$	$\frac{79}{86}/\frac{86}{87}/\frac{81}{73}$	$\frac{54}{102}/\frac{67}{108}/\frac{17}{133}$	$\frac{60}{96}/\frac{65}{104}/\frac{17}{133}$	-	-
ETMDP	$\frac{138}{10}/\frac{124}{29}/\frac{147}{148}$	$\frac{100}{84}/\frac{104}{103}/\frac{38}{112}$	$\frac{94}{87}/\frac{103}{105}/\frac{39}{111}$	$\frac{104}{52}/\frac{109}{64}/\frac{79}{71}$	$\frac{100}{94}/\frac{105}{108}/\frac{49}{101}$	$\frac{98}{99}/\frac{109}{113}/\frac{50}{100}$	$\frac{103}{53}/\frac{103}{67}/\frac{80}{70}$	-
eETMDP	$\frac{128}{20}/\frac{111}{39}/\frac{53}{97}$	$\frac{51}{101}/\frac{44}{119}/\frac{2}{148}$	$\frac{39}{112}/\frac{43}{121}/\frac{2}{148}$	$\frac{73}{80}/\frac{70}{98}/\frac{25}{126}$	$\frac{42}{109}/\frac{42}{121}/\frac{2}{148}$	$\frac{39}{113}/\frac{39}{122}/\frac{2}{148}$	$\frac{74}{86}/\frac{71}{95}/\frac{32}{120}$	$\frac{39}{112}/\frac{48}{116}/\frac{53}{97}$