

Instance	cplex		heuristique	
	Temps (s)	Optimal ?	Temps (s)	Optimal ?
size10no10.txt	2.1	×	0.04	
size10no109.txt	0.01	×	0.0	
size10no118.txt	0.01	×	0.0	
size10no124.txt	0.01	×	0.0	
size10no21.txt	0.01	×	0.0	
size10no24.txt	0.01	×	0.0	
size10no26.txt	0.01	×	0.0	
size10no27.txt	0.01	×	0.0	
size10no32.txt	0.01	×	0.0	
size10no33.txt	0.01	×	0.0	
size10no39.txt	0.01	×	0.0	
size10no4.txt	0.01	×	0.0	
size10no50.txt	0.01	×	0.0	
size10no55.txt	0.01	×	0.0	
size10no59.txt	0.01	×	0.0	
size10no65.txt	0.01	×	0.0	
size10no72.txt	0.01	×	0.0	
size10no75.txt	0.01	×	0.0	
size10no81.txt	0.01	×	0.0	
size10no83.txt	0.01	×	0.0	
size10no9.txt	0.01	×	0.0	
size11no1.txt	0.01	×	0.0	
size11no111.txt	0.03	×	0.0	
size11no114.txt	0.01	×	0.0	
size11no119.txt	0.01	×	0.0	
size11no142.txt	0.01	×	0.0	
size11no143.txt	0.01	×	0.0	
size11no149.txt	0.01	×	0.0	
size11no18.txt	0.01	×	0.0	

Instance	cplex		heuristique	
	Temps (s)	Optimal ?	Temps (s)	Optimal ?
size11no27.txt	0.01	×	0.0	
size11no29.txt	0.01	×	0.0	
size11no61.txt	0.01	×	0.0	
size11no71.txt	0.01	×	0.0	
size11no74.txt	0.01	×	0.0	
size11no78.txt	0.01	×	0.0	
size11no8.txt	0.01	×	0.0	
size11no95.txt	0.01	×	0.0	
size11no96.txt	0.01	×	0.0	
size12no1.txt	0.01	×	0.0	
size12no112.txt	0.01	×	0.0	
size12no141.txt	0.01	×	0.0	
size12no148.txt	0.01	×	0.0	
size12no24.txt	0.01	×	0.0	
size12no28.txt	0.01	×	0.0	
size12no42.txt	0.01	×	0.0	
size12no44.txt	0.01	×	0.0	
size12no52.txt	0.01	×	0.0	
size12no6.txt	0.01	×	0.0	
size12no84.txt	0.05	×	0.0	
size12no92.txt	0.01	×	0.0	
size13no10.txt	0.01	×	0.0	
size13no33.txt	0.01	×	0.0	
size13no5.txt	0.01	×	0.0	
size13no7.txt	0.01	×	0.0	
size2no12.txt	0.01	×	0.0	×
size2no127.txt	0.01	×	0.0	×
size2no132.txt	0.01	×	0.0	×
size2no133.txt	0.01	×	0.0	×
size2no139.txt	0.01	×	0.0	×

Instance	cplex		heuristique	
	Temps (s)	Optimal ?	Temps (s)	Optimal ?
size2no19.txt	0.01	×	0.0	×
size2no20.txt	0.01	×	0.0	×
size2no28.txt	0.01	×	0.0	×
size2no30.txt	0.01	×	0.0	×
size2no31.txt	0.01	×	0.0	×
size2no41.txt	0.01	×	0.0	×
size2no42.txt	0.01	×	0.0	×
size2no5.txt	0.01	×	0.0	×
size2no70.txt	0.01	×	0.0	×
size2no88.txt	0.01	×	0.0	×
size3no104.txt	0.01	×	0.0	×
size3no117.txt	0.01	×	0.0	×
size3no126.txt	0.01	×	0.0	×
size3no128.txt	0.01	×	0.0	×
size3no14.txt	0.01	×	0.0	×
size3no16.txt	0.01	×	0.0	×
size3no23.txt	0.01	×	0.0	×
size3no35.txt	0.03	×	0.0	×
size3no38.txt	0.01	×	0.0	×
size3no4.txt	0.01	×	0.0	×
size3no48.txt	0.01	×	0.0	×
size3no49.txt	0.01	×	0.0	×
size3no56.txt	0.01	×	0.0	×
size3no58.txt	0.01	×	0.0	×
size3no91.txt	0.01	×	0.0	×
size3no98.txt	0.01	×	0.0	×
size4no116.txt	0.01	×	0.0	×
size4no121.txt	0.01	×	0.0	×
size4no13.txt	0.01	×	0.0	×
size4no134.txt	0.01	×	0.0	×

Instance	cplex		heuristique	
	Temps (s)	Optimal ?	Temps (s)	Optimal ?
size4no144.txt	0.01	×	0.0	×
size4no147.txt	0.01	×	0.0	×
size4no15.txt	0.01	×	0.0	×
size4no18.txt	0.01	×	0.0	×
size4no2.txt	0.01	×	0.0	×
size4no22.txt	0.01	×	0.0	×
size4no29.txt	0.01	×	0.0	×
size4no3.txt	0.01	×	0.0	×
size4no37.txt	0.01	×	0.0	×
size4no38.txt	0.01	×	0.0	×
size4no46.txt	0.01	×	0.0	×
size4no57.txt	0.01	×	0.0	×
size4no62.txt	0.01	×	0.0	×
size5no100.txt	0.01	×	0.0	
size5no115.txt	0.01	×	0.0	
size5no120.txt	0.01	×	0.0	
size5no125.txt	0.01	×	0.0	×
size5no131.txt	0.01	×	0.0	×
size5no16.txt	0.01	×	0.0	×
size5no19.txt	0.01	×	0.0	×
size5no34.txt	0.01	×	0.0	×
size5no39.txt	0.01	×	0.0	×
size5no50.txt	0.01	×	0.0	×
size5no51.txt	0.01	×	0.0	×
size5no7.txt	0.01	×	0.0	×
size5no73.txt	0.01	×	0.0	×
size5no97.txt	0.01	×	0.0	
size6no113.txt	0.01	×	0.0	
size6no138.txt	0.01	×	0.0	
size6no17.txt	0.01	×	0.0	

Instance	cplex		heuristique	
	Temps (s)	Optimal ?	Temps (s)	Optimal ?
size6no2.txt	0.01	×	0.0	
size6no22.txt	0.01	×	0.0	
size6no4.txt	0.01	×	0.0	×
size6no43.txt	0.01	×	0.0	×
size6no46.txt	0.01	×	0.0	
size6no47.txt	0.01	×	0.0	×
size6no49.txt	0.01	×	0.0	
size6no54.txt	0.01	×	0.0	
size6no68.txt	0.01	×	0.0	×
size6no99.txt	0.01	×	0.0	
size7no102.txt	0.01	×	0.0	
size7no103.txt	0.01	×	0.0	
size7no107.txt	0.01	×	0.0	
size7no122.txt	0.01	×	0.0	
size7no129.txt	0.01	×	0.0	
size7no130.txt	0.01	×	0.0	
size7no17.txt	0.01	×	0.0	
size7no23.txt	0.01	×	0.0	
size7no25.txt	0.01	×	0.0	×
size7no26.txt	0.01	×	0.0	×
size7no35.txt	0.01	×	0.0	
size7no40.txt	0.04	×	0.0	
size7no41.txt	0.01	×	0.0	
size7no48.txt	0.01	×	0.0	
size7no53.txt	0.01	×	0.0	
size7no60.txt	0.01	×	0.0	×
size7no66.txt	0.01	×	0.0	
size7no67.txt	0.01	×	0.0	
size7no8.txt	0.01	×	0.0	
size7no85.txt	0.01	×	0.0	

Instance	cplex		heuristique	
	Temps (s)	Optimal ?	Temps (s)	Optimal ?
size7no89.txt	0.01	×	0.0	
size8no101.txt	0.01	×	0.0	
size8no106.txt	0.01	×	0.0	
size8no110.txt	0.01	×	0.0	
size8no123.txt	0.01	×	0.0	
size8no13.txt	0.01	×	0.0	×
size8no135.txt	0.01	×	0.0	
size8no137.txt	0.01	×	0.0	
size8no140.txt	0.01	×	0.0	
size8no145.txt	0.01	×	0.0	
size8no146.txt	0.01	×	0.0	
size8no20.txt	0.01	×	0.0	
size8no34.txt	0.01	×	0.0	
size8no36.txt	0.01	×	0.0	
size8no40.txt	0.01	×	0.0	
size8no44.txt	0.01	×	0.0	×
size8no45.txt	0.01	×	0.0	
size8no5.txt	0.01	×	0.0	
size8no6.txt	0.01	×	0.0	
size8no64.txt	0.01	×	0.0	
size8no76.txt	0.01	×	0.0	
size8no77.txt	0.01	×	0.0	
size8no79.txt	0.01	×	0.0	
size8no80.txt	0.01	×	0.0	
size8no86.txt	0.01	×	0.0	
size8no87.txt	0.01	×	0.0	
size9no1.txt	0.03	×	0.0	
size9no105.txt	0.01	×	0.0	
size9no108.txt	0.01	×	0.0	
size9no11.txt	0.01	×	0.0	

Instance	cplex		heuristique	
	Temps (s)	Optimal ?	Temps (s)	Optimal ?
size9no12.txt	0.01	×	0.0	
size9no136.txt	0.01	×	0.0	
size9no14.txt	0.01	×	0.0	
size9no15.txt	0.01	×	0.0	
size9no150.txt	0.01	×	0.0	×
size9no21.txt	0.06	×	0.0	
size9no3.txt	0.02	×	0.0	
size9no32.txt	0.02	×	0.0	
size9no36.txt	0.02	×	0.0	
size9no37.txt	0.02	×	0.0	
size9no43.txt	0.01	×	0.0	
size9no47.txt	0.01	×	0.0	
size9no63.txt	0.01	×	0.0	
size9no69.txt	0.01	×	0.0	
size9no82.txt	0.01	×	0.0	
size9no9.txt	0.01	×	0.0	
size9no90.txt	0.01	×	0.0	
size9no93.txt	0.01	×	0.0	
size9no94.txt	0.01	×	0.0	
size10no10.txt	2.1	×	0.04	
size10no109.txt	0.01	×	0.0	
size10no118.txt	0.01	×	0.0	
size10no124.txt	0.01	×	0.0	
size10no21.txt	0.01	×	0.0	
size10no24.txt	0.01	×	0.0	
size10no26.txt	0.01	×	0.0	
size10no27.txt	0.01	×	0.0	
size10no32.txt	0.01	×	0.0	
size10no33.txt	0.01	×	0.0	
size10no39.txt	0.01	×	0.0	

Instance	cplex		heuristique	
	Temps (s)	Optimal ?	Temps (s)	Optimal ?
size10no4.txt	0.01	×	0.0	
size10no50.txt	0.01	×	0.0	
size10no55.txt	0.01	×	0.0	
size10no59.txt	0.01	×	0.0	
size10no65.txt	0.01	×	0.0	
size10no72.txt	0.01	×	0.0	
size10no75.txt	0.01	×	0.0	
size10no81.txt	0.01	×	0.0	
size10no83.txt	0.01	×	0.0	
size10no9.txt	0.01	×	0.0	
size11no1.txt	0.01	×	0.0	
size11no111.txt	0.03	×	0.0	
size11no114.txt	0.01	×	0.0	
size11no119.txt	0.01	×	0.0	
size11no142.txt	0.01	×	0.0	
size11no143.txt	0.01	×	0.0	
size11no149.txt	0.01	×	0.0	
size11no18.txt	0.01	×	0.0	
size11no27.txt	0.01	×	0.0	
size11no29.txt	0.01	×	0.0	
size11no61.txt	0.01	×	0.0	
size11no71.txt	0.01	×	0.0	
size11no74.txt	0.01	×	0.0	
size11no78.txt	0.01	×	0.0	
size11no8.txt	0.01	×	0.0	
size11no95.txt	0.01	×	0.0	
size11no96.txt	0.01	×	0.0	
size12no1.txt	0.01	×	0.0	
size12no112.txt	0.01	×	0.0	
size12no141.txt	0.01	×	0.0	

Instance	cplex		heuristique	
	Temps (s)	Optimal ?	Temps (s)	Optimal ?
size12no148.txt	0.01	×	0.0	
size12no24.txt	0.01	×	0.0	
size12no28.txt	0.01	×	0.0	
size12no42.txt	0.01	×	0.0	
size12no44.txt	0.01	×	0.0	
size12no52.txt	0.01	×	0.0	
size12no6.txt	0.01	×	0.0	
size12no84.txt	0.05	×	0.0	
size12no92.txt	0.01	×	0.0	
size13no10.txt	0.01	×	0.0	
size13no33.txt	0.01	×	0.0	
size13no5.txt	0.01	×	0.0	
size13no7.txt	0.01	×	0.0	
size2no12.txt	0.01	×	0.0	×
size2no127.txt	0.01	×	0.0	×
size2no132.txt	0.01	×	0.0	×
size2no133.txt	0.01	×	0.0	×
size2no139.txt	0.01	×	0.0	×
size2no19.txt	0.01	×	0.0	×
size2no20.txt	0.01	×	0.0	×
size2no28.txt	0.01	×	0.0	×
size2no30.txt	0.01	×	0.0	×
size2no31.txt	0.01	×	0.0	×
size2no41.txt	0.01	×	0.0	×
size2no42.txt	0.01	×	0.0	×
size2no5.txt	0.01	×	0.0	×
size2no70.txt	0.01	×	0.0	×
size2no88.txt	0.01	×	0.0	×
size3no104.txt	0.01	×	0.0	×
size3no117.txt	0.01	×	0.0	×

Instance	cplex		heuristique	
	Temps (s)	Optimal ?	Temps (s)	Optimal ?
size3no126.txt	0.01	×	0.0	×
size3no128.txt	0.01	×	0.0	×
size3no14.txt	0.01	×	0.0	×
size3no16.txt	0.01	×	0.0	×
size3no23.txt	0.01	×	0.0	×
size3no35.txt	0.03	×	0.0	×
size3no38.txt	0.01	×	0.0	×
size3no4.txt	0.01	×	0.0	×
size3no48.txt	0.01	×	0.0	×
size3no49.txt	0.01	×	0.0	×
size3no56.txt	0.01	×	0.0	×
size3no58.txt	0.01	×	0.0	×
size3no91.txt	0.01	×	0.0	×
size3no98.txt	0.01	×	0.0	×
size4no116.txt	0.01	×	0.0	×
size4no121.txt	0.01	×	0.0	×
size4no13.txt	0.01	×	0.0	×
size4no134.txt	0.01	×	0.0	×
size4no144.txt	0.01	×	0.0	×
size4no147.txt	0.01	×	0.0	×
size4no15.txt	0.01	×	0.0	×
size4no18.txt	0.01	×	0.0	×
size4no2.txt	0.01	×	0.0	×
size4no22.txt	0.01	×	0.0	×
size4no29.txt	0.01	×	0.0	×
size4no3.txt	0.01	×	0.0	×
size4no37.txt	0.01	×	0.0	×
size4no38.txt	0.01	×	0.0	×
size4no46.txt	0.01	×	0.0	×
size4no57.txt	0.01	×	0.0	×

Instance	cplex		heuristique	
	Temps (s)	Optimal ?	Temps (s)	Optimal ?
size4no62.txt	0.01	×	0.0	×
size5no100.txt	0.01	×	0.0	
size5no115.txt	0.01	×	0.0	
size5no120.txt	0.01	×	0.0	
size5no125.txt	0.01	×	0.0	×
size5no131.txt	0.01	×	0.0	×
size5no16.txt	0.01	×	0.0	×
size5no19.txt	0.01	×	0.0	×
size5no34.txt	0.01	×	0.0	×
size5no39.txt	0.01	×	0.0	×
size5no50.txt	0.01	×	0.0	×
size5no51.txt	0.01	×	0.0	×
size5no7.txt	0.01	×	0.0	×
size5no73.txt	0.01	×	0.0	×
size5no97.txt	0.01	×	0.0	
size6no113.txt	0.01	×	0.0	
size6no138.txt	0.01	×	0.0	
size6no17.txt	0.01	×	0.0	
size6no2.txt	0.01	×	0.0	
size6no22.txt	0.01	×	0.0	
size6no4.txt	0.01	×	0.0	×
size6no43.txt	0.01	×	0.0	×
size6no46.txt	0.01	×	0.0	
size6no47.txt	0.01	×	0.0	×
size6no49.txt	0.01	×	0.0	
size6no54.txt	0.01	×	0.0	
size6no68.txt	0.01	×	0.0	×
size6no99.txt	0.01	×	0.0	
size7no102.txt	0.01	×	0.0	
size7no103.txt	0.01	×	0.0	

Instance	cplex		heuristique	
	Temps (s)	Optimal ?	Temps (s)	Optimal ?
size7no107.txt	0.01	×	0.0	
size7no122.txt	0.01	×	0.0	
size7no129.txt	0.01	×	0.0	
size7no130.txt	0.01	×	0.0	
size7no17.txt	0.01	×	0.0	
size7no23.txt	0.01	×	0.0	
size7no25.txt	0.01	×	0.0	×
size7no26.txt	0.01	×	0.0	×
size7no35.txt	0.01	×	0.0	
size7no40.txt	0.04	×	0.0	
size7no41.txt	0.01	×	0.0	
size7no48.txt	0.01	×	0.0	
size7no53.txt	0.01	×	0.0	
size7no60.txt	0.01	×	0.0	×
size7no66.txt	0.01	×	0.0	
size7no67.txt	0.01	×	0.0	
size7no8.txt	0.01	×	0.0	
size7no85.txt	0.01	×	0.0	
size7no89.txt	0.01	×	0.0	
size8no101.txt	0.01	×	0.0	
size8no106.txt	0.01	×	0.0	
size8no110.txt	0.01	×	0.0	
size8no123.txt	0.01	×	0.0	
size8no13.txt	0.01	×	0.0	×
size8no135.txt	0.01	×	0.0	
size8no137.txt	0.01	×	0.0	
size8no140.txt	0.01	×	0.0	
size8no145.txt	0.01	×	0.0	
size8no146.txt	0.01	×	0.0	
size8no20.txt	0.01	×	0.0	

Instance	cplex		heuristique	
	Temps (s)	Optimal ?	Temps (s)	Optimal ?
size8no34.txt	0.01	×	0.0	
size8no36.txt	0.01	×	0.0	
size8no40.txt	0.01	×	0.0	
size8no44.txt	0.01	×	0.0	×
size8no45.txt	0.01	×	0.0	
size8no5.txt	0.01	×	0.0	
size8no6.txt	0.01	×	0.0	
size8no64.txt	0.01	×	0.0	
size8no76.txt	0.01	×	0.0	
size8no77.txt	0.01	×	0.0	
size8no79.txt	0.01	×	0.0	
size8no80.txt	0.01	×	0.0	
size8no86.txt	0.01	×	0.0	
size8no87.txt	0.01	×	0.0	
size9no1.txt	0.03	×	0.0	
size9no105.txt	0.01	×	0.0	
size9no108.txt	0.01	×	0.0	
size9no11.txt	0.01	×	0.0	
size9no12.txt	0.01	×	0.0	
size9no136.txt	0.01	×	0.0	
size9no14.txt	0.01	×	0.0	
size9no15.txt	0.01	×	0.0	
size9no150.txt	0.01	×	0.0	×
size9no21.txt	0.06	×	0.0	
size9no3.txt	0.02	×	0.0	
size9no32.txt	0.02	×	0.0	
size9no36.txt	0.02	×	0.0	
size9no37.txt	0.02	×	0.0	
size9no43.txt	0.01	×	0.0	
size9no47.txt	0.01	×	0.0	

Instance	cplex		heuristique	
	Temps (s)	Optimal ?	Temps (s)	Optimal ?
size9no63.txt	0.01	×	0.0	
size9no69.txt	0.01	×	0.0	
size9no82.txt	0.01	×	0.0	
size9no9.txt	0.01	×	0.0	
size9no90.txt	0.01	×	0.0	
size9no93.txt	0.01	×	0.0	
size9no94.txt	0.01	×	0.0	