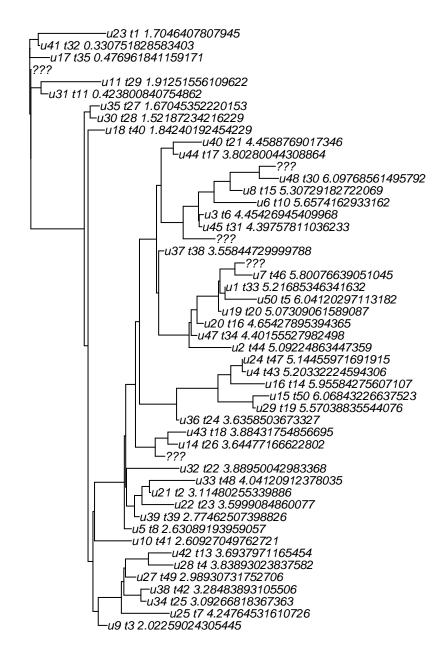
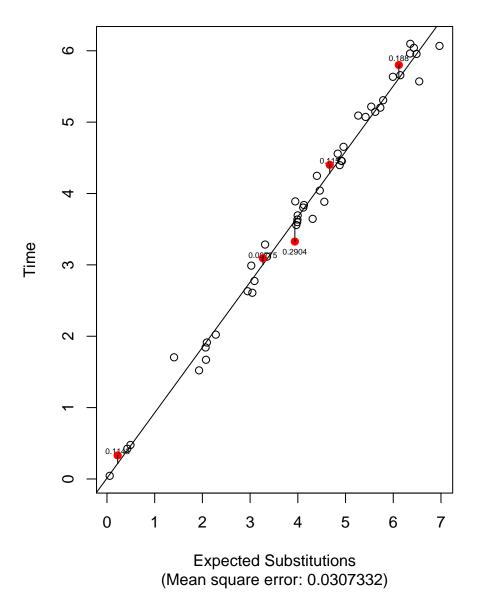


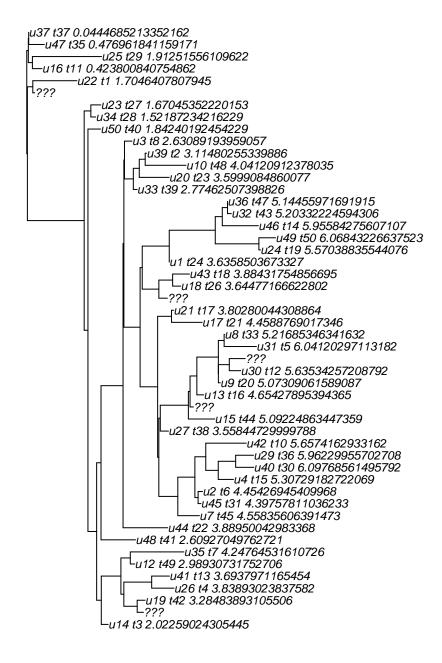
Expected Substitutions (Mean square error: 0.0329342)

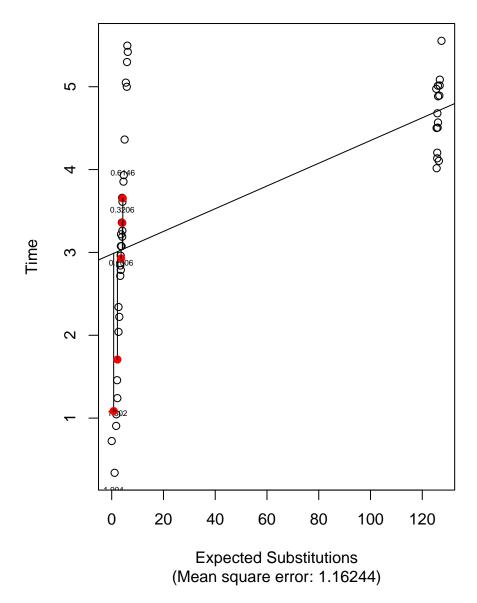
coal: Simulated-no.1 (Remove 5)





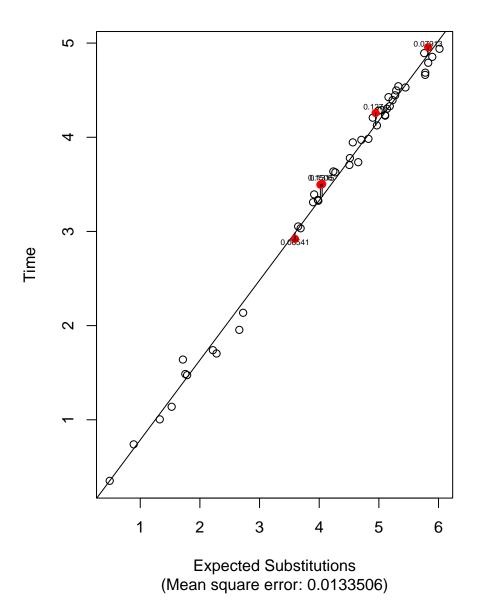
coal: Simulated-no.2 (Remove 5)



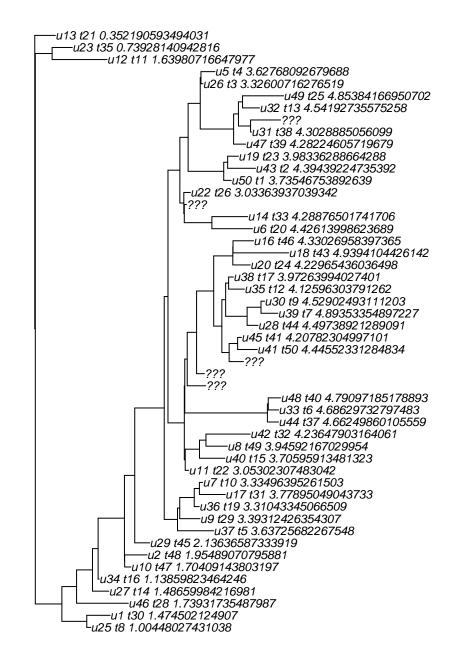


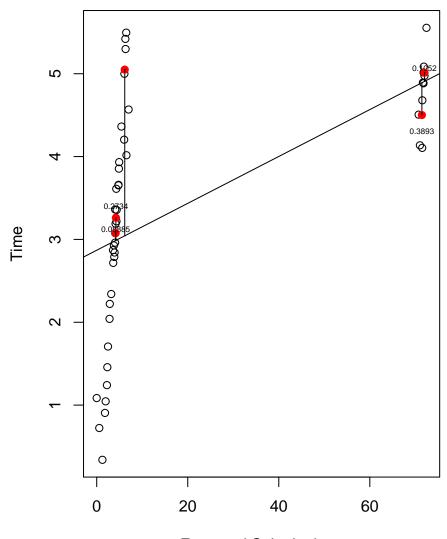
coal: Simulated-no.3 (Remove 5)

```
ıu4 t10 0.723581283603678
<sub>г</sub>и39 t26 2.34097069742324
u45 t28 1.04558246623958
г???
 ru26 t9 5.04969531504399
  -u8 t12 5.49622097922922
 ru32 t16 5.42071576635052
  u27 t2 5.29831631414537
 u41 t27 4.36282934843918
 u33 t15 3.93328768010973
 u18 t34 3.85442836819458
  -u10 t40 4.99962130610321
  u34 t31 3.26199509440355
  u46 t20 3.18988648364878
  u20 t41 2.78895490363107
 u3 t24 3.07555186401669
 u13 t47 3.65924761519539
  u21 t3 3.21892334410841
 u17 t44 3.07588498107007
 u23 t29 2.84200467872162
 u2 t6 2.96105186702752
 <sup>l</sup>u14 t5 2.71681141568655
 ıu12 t4 3.61125417231769
u44 t50 3.3606334975575
 u22 t35 2.87097807601615
-u1 t13 2.04120682621204
                                           ıu37 t8 4.5016544291516
                                           u35 t33 5.01223021939249
                                           u42 t17 4.89317367486604
                                           u36 t37 5.08597008263068
                                            ·u30 t21 5.5545085078039
                                            u43 t30 5.01528299001829
                                           u9 t23 4.10511951963801
                                           u49 t39 4.13615590124243
                                           u15 t38 4.88468930858601
                                           u40 t42 4.67946608331333
                                           <sup>1</sup>u7 t45 4.97509342526189
                                           ru50 t18 4.56843987009799
                                           u24 t49 4.01631346410753
                                           u16 t19 4.50633754513033
                                           <sup>1</sup>u29 t46 4.20401574089504
u6 t25 1.45757494391226
-u11 t22 2.22194939746573
u31 t1 0.90591489255101
u5 t11 0.339728130312128
u48 t32 1.24114548256182
???
```



coal: Simulated-no.4 (Remove 5)

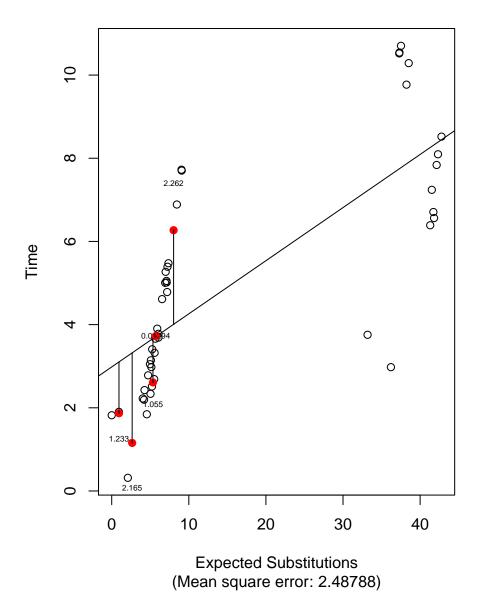




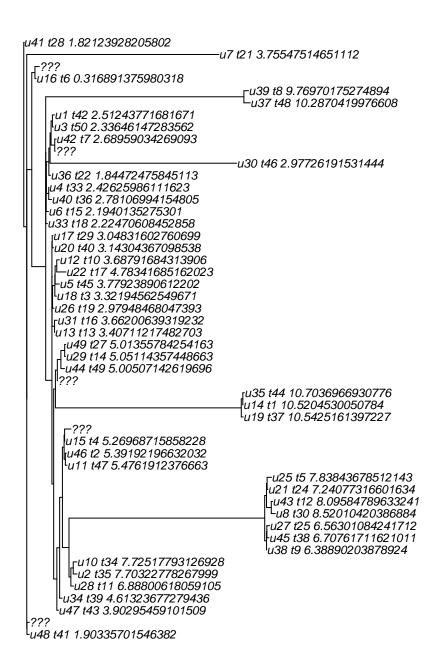
Expected Substitutions (Mean square error: 0.853906)

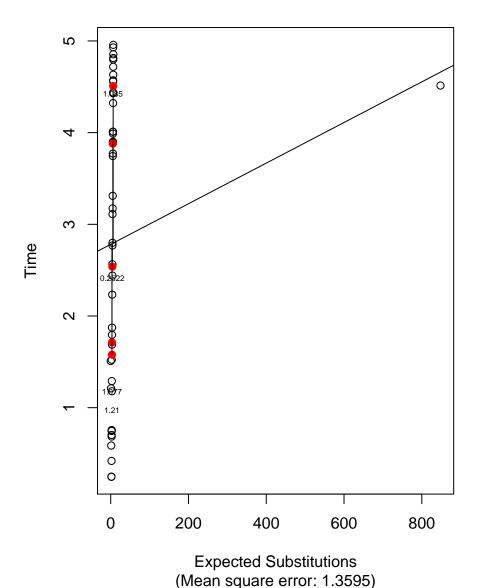
coal: Simulated-no.5 (Remove 5)

```
<sub>1</sub>u28 t36 1.0852033083708
u9 t10 0.723581283603678
ru26 t1 0.90591489255101
u3 t25 1.45757494391226
-u7 t22 2.22194939746573
   <sub>Г</sub>и24 t18 4.56843987009799
   <sup>L</sup>u42 t49 4.01631346410753
  lu41 t46 4.20401574089504
                                             -u12 t45 4.97509342526189
                                             u5 t42 4.67946608331333
                                            Lu34 t38 4.88468930858601
                                            u37 t39 4.13615590124243
                                             -u33 t23 4.10511951963801
                                             <sub>r</sub>u15 t21 5.5545085078039
                                             u32 t30 5.01528299001829
                                             4u6 t37 5.08597008263068
                                             u46 t17 4.89317367486604
                                             -u14 t19 4.50633754513033
 ru10 t13 2.04120682621204
  u20 t20 3.18988648364878
  u49 t41 2.78895490363107
  ·u48 t24 3.07555186401669
  ru11 t40 4.99962130610321
   ru23 t12 5.49622097922922
   ıu4 t16 5.42071576635052
   <sup>1</sup>u27 t2 5.29831631414537
   u2 t27 4.36282934843918
   u38 t15 3.93328768010973
   u45 t34 3.85442836819458
  lu50 t7 3.65244117881958
  -u19 t43 3.35598950371373
  <sub>L</sub>u43 t47 3.65924761519539
  u36 t3 3.21892334410841
  u22 t29 2.84200467872162
  <sup>l</sup>u8 t6 2.96105186702752
 lu44 t5 2.71681141568655
  -u16 t14 2.92837335264961
  Ju29 t50 3.3606334975575
  lu17 t4 3.61125417231769
 <sup>1</sup>u39 t35 2.87097807601615
 <sup>l</sup>u21 t48 1.70727327223822
 -u25 t26 2.34097069742324
u35 t28 1.04558246623958
u31 t11 0.339728130312128
Lu30 t32 1.24114548256182
```



coal: Simulated-no.6 (Remove 5)

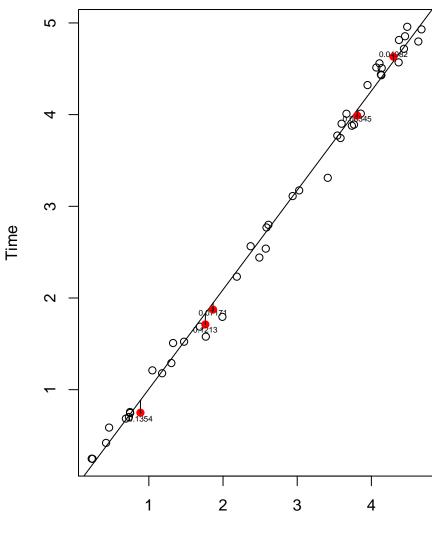




coal: Simulated-no.7 (Remove 5)

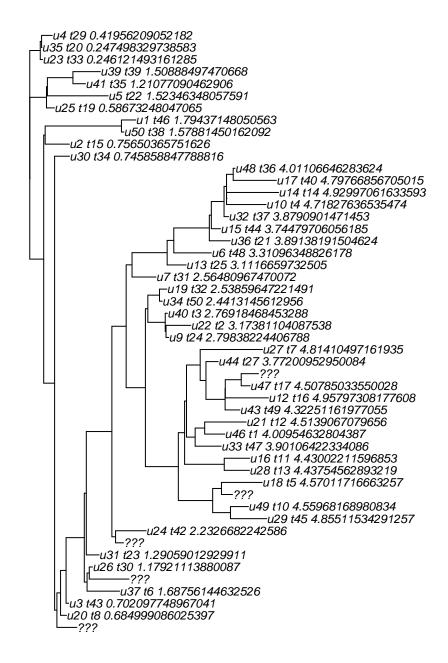
```
<sub>1</sub>u6 t39 1.50888497470668
u28 t22 1.52346348057591
u30 t26 1.8737329013589
u44 t30 1.17921113880087
u33 t40 4.79766856705015
u5 t36 4.01106646283624
u15 t4 4.71827636535474
u38 t14 4.92997061633593
u7 t21 3.89138191504624
u27 t44 3.74479706056185
u35 t48 3.31096348826178
u4 t25 3.1116659732505
u34 t31 2.56480967470072
u12 t50 2.4413145612956
u11 t27 3.77200952950084
u39 t7 4.81410497161935
u25 t28 4.63155694326388
u2 t16 4.95797308177608
u9 t49 4.32251161977055
u24 t1 4.00954632804387
u18 t47 3.90106422334086
                                          -u10 t12 4.5139067079656
u26 t11 4.43002211596853
u14 t13 4.43754562893219
u41 t5 4.57011716663257
u13 t9 3.98938819026079
u32 t10 4.55968168980834
u31 t45 4.85511534291257
u48 t2 3.17381104087538
u19 t24 2.79838224406788
u40 t3 2.76918468453288
u45 t42 2.2326682242586
u42 t6 1.68756144632526
u22 t23 1.29059012929911
u47 t43 0.702097748967041
u46 t8 0.684999086025397
u1 t34 0.745858847788816
u23 t18 0.749140745844549
u36 t15 0.75650365751626
u16 t46 1.79437148050563
u37 t29 0.41956209052182
u3 t20 0.247498329738583
u8 t33 0.246121493161285
u21 t19 0.58673248047065
```

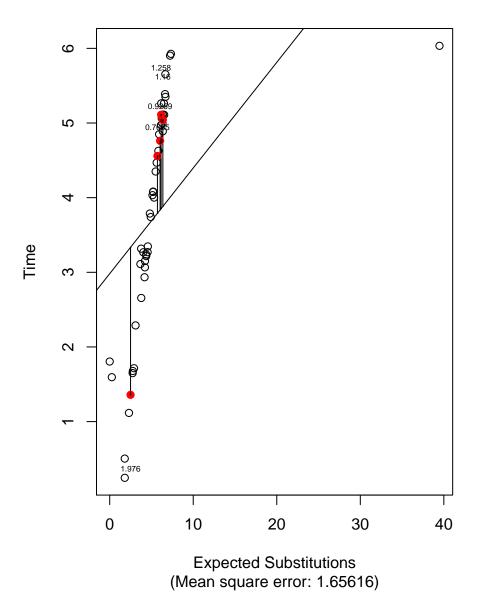
u20 t35 1.21077090462906



Expected Substitutions (Mean square error: 0.0089397)

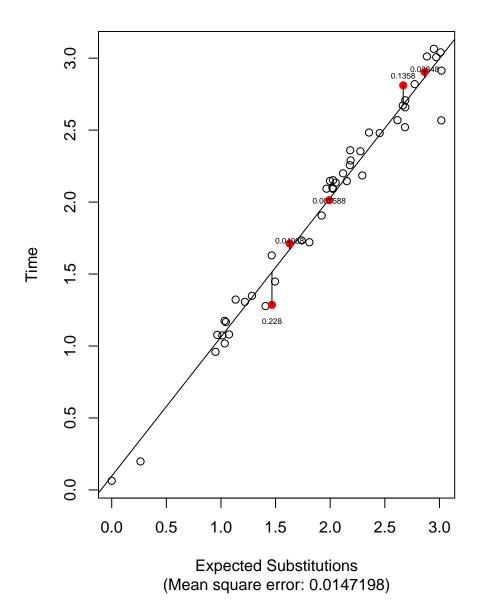
coal: Simulated-no.8 (Remove 5)



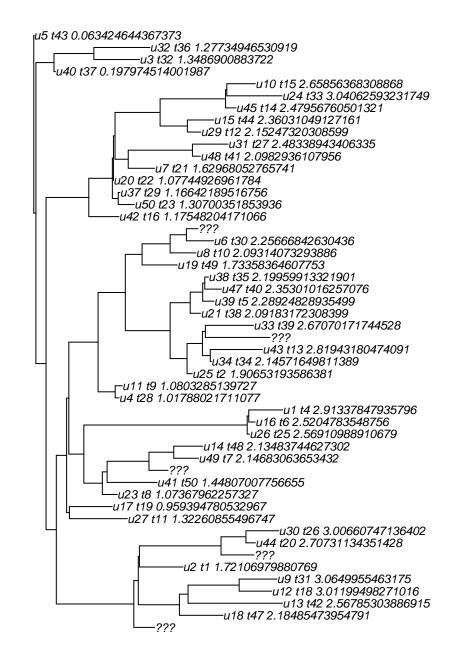


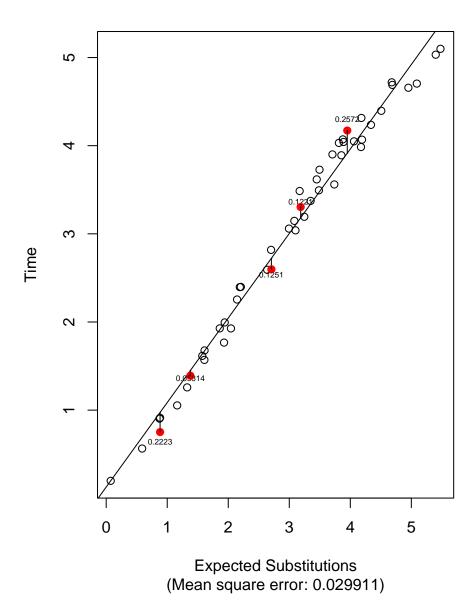
coal: Simulated-no.9 (Remove 5)

```
<sub>1</sub>u45 t33 1.80472390478921
u2 t4 1.59505704710215
 ıu47 t30 0.504486941575644
  <sub>г</sub>и9 t25 1.67775675988153
    ıu7 t28 3.23766242680217
       _u18 t13 5.92686633047346
      lu10 t1 5.38725804177856
      lu36 t14 5.26168490194517
      Lu26 t23 5.11242646737594
      <sup>L</sup>u20 t37 5.10410733461273
      ru31 t39 4.97159970185215
      <sub>F</sub>u4 t21 5.65364172975515
      <sup>1</sup>u5 t6 5.06364427993512
      -u16 t11 5.35046918322249
      -u46 t29 4.84905050255587
      u19 t34 4.35065774493989
     u15 t12 4.07691814633371
     u30 t7 4.03361830010156
    u17 t17 2.93389670614059
    <sup>1</sup>u27 t8 3.27027477143896
  u25 t49 1.64974147715017
  u44 t19 1.11627060278374
  -u14 t46 1.71523498289066
   ru24 t15 3.11039064651279
   -u34 t10 3.26859213725814
  Lu29 t35 3.31723174080989
  <sup>L</sup>u50 t26 2.28875540527007
      ıu13 t22 4.8890616799568
     lu35 t38 4.00116129210536
      ги11 t50 5.26387276556186
                                               -u22 t40 6.03432433708552
    u39 t5 3.21728300940178
    u40 t41 3.06644497319744
    <sup>L</sup>u21 t27 3.3468699647419
     ???
Lu48 t43 5.90255001356291
      -u49 t48 5.11010806912915
      -u28 t47 4.6272721465264
      u38 t36 4.46882760029119
      <sup>1</sup>u23 t2 4.99624621950288
     <sup>l</sup>u33 t20 3.74066126584952
     <sup>L</sup>u1 t44 3.78759653254036
    <sup>∏</sup>u6 t42 4.08157634435274
    <sup>1</sup>u41 t16 3.15133472195007
   └u37 t31 2.65617643872884
 <sup>L</sup>u8 t32 0.247080521075986
```

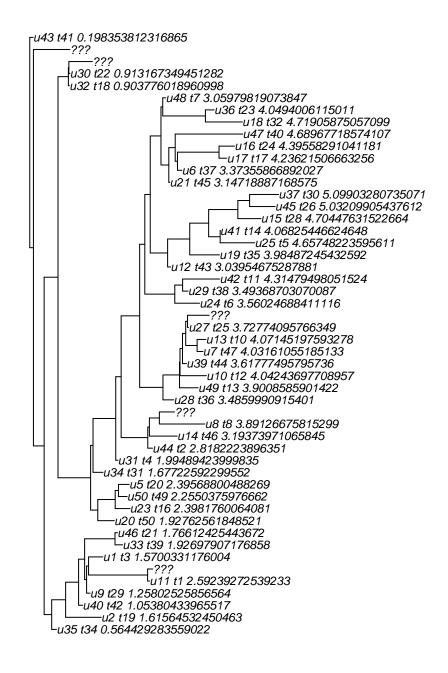


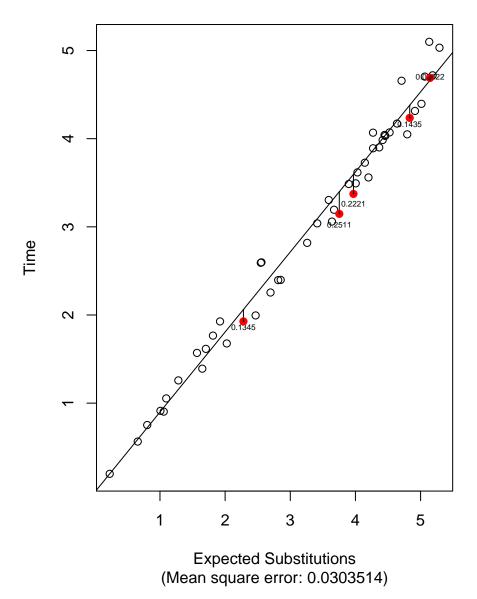
coal: Simulated-no.10 (Remove 5)



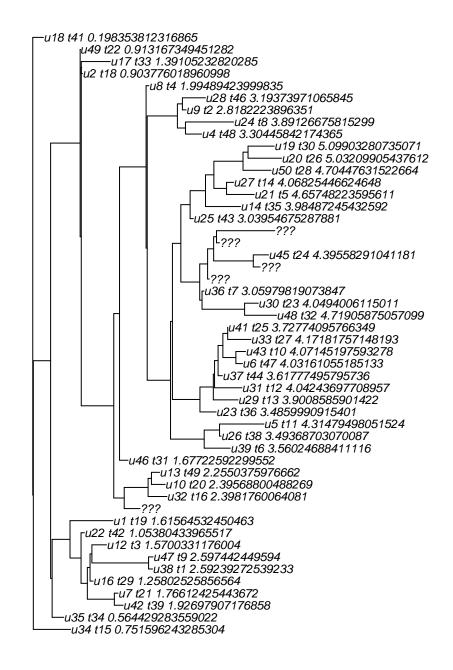


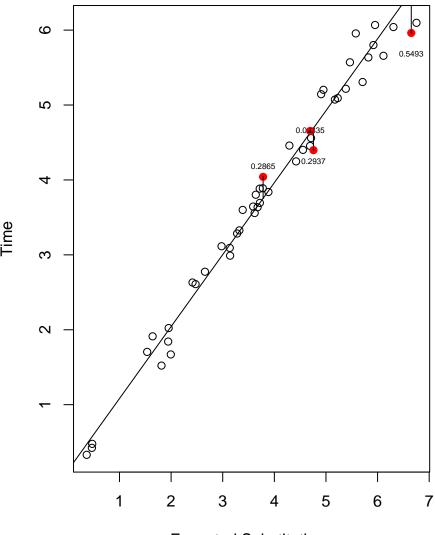
coal: Simulated-no.11 (Remove 5)





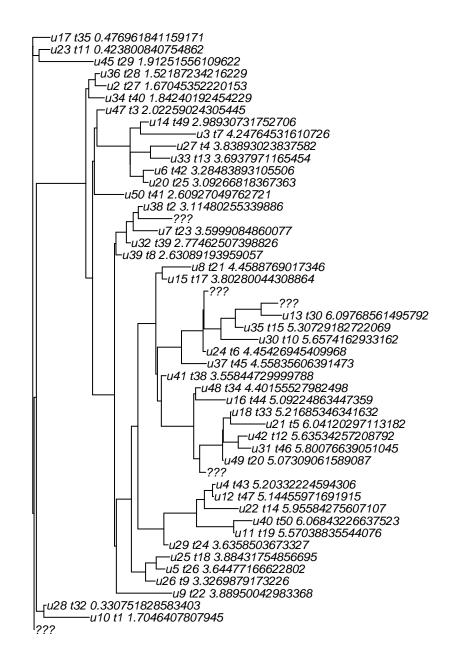
coal: Simulated-no.12 (Remove 5)

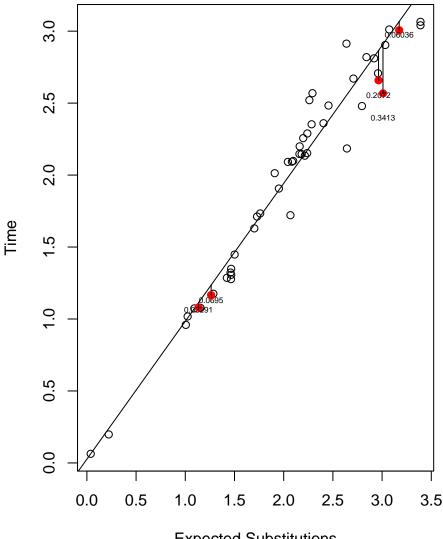




Expected Substitutions (Mean square error: 0.0969728)

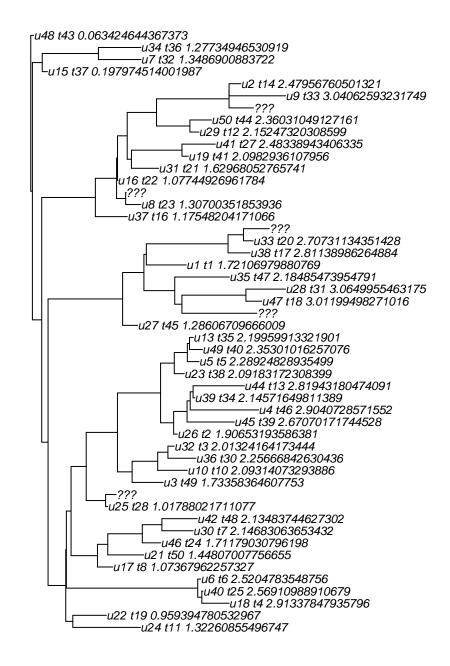
coal: Simulated-no.13 (Remove 5)

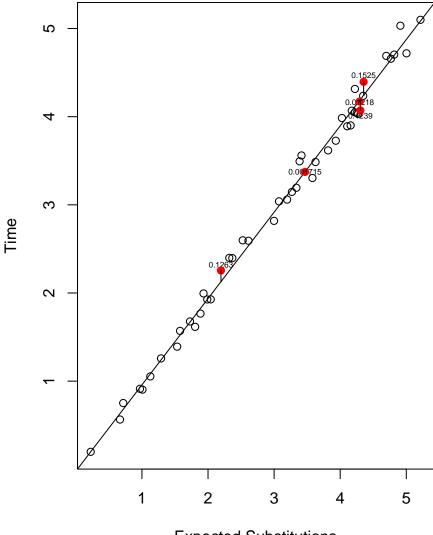




Expected Substitutions (Mean square error: 0.033796)

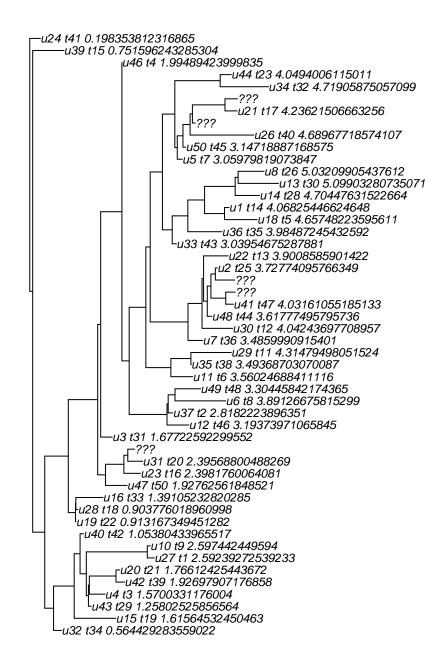
coal: Simulated-no.14 (Remove 5)

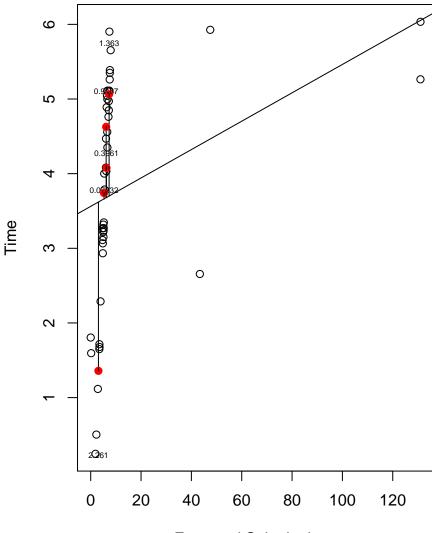




Expected Substitutions (Mean square error: 0.0109445)

coal: Simulated-no.15 (Remove 5)





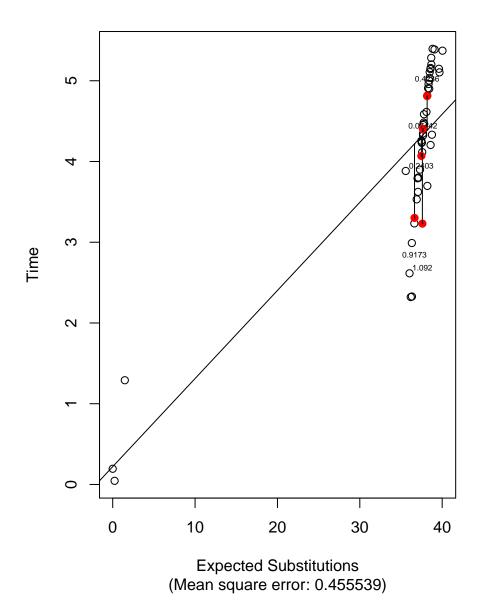
Expected Substitutions (Mean square error: 1.60686)

coal: Simulated-no.16 (Remove 5)

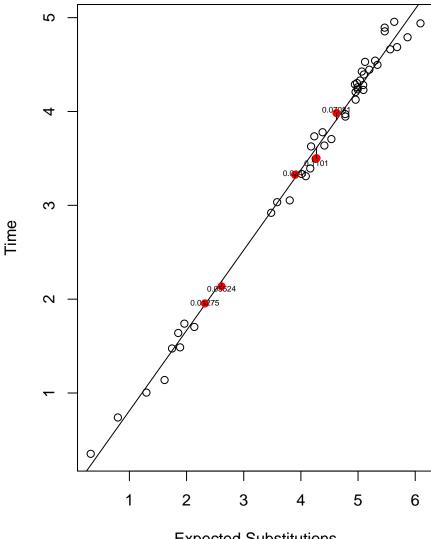
```
<sub>1</sub>u28 t33 1.80472390478921
ıu11 t30 0.504486941575644
  ıu39 t34 4.35065774493989
  u41 t29 4.84905050255587
  u38 t39 4.97159970185215
                -u26 t13 5.92686633047346
  u40 t21 5.65364172975515
  lu10 t11 5.35046918322249
  u20 t1 5.38725804177856
  u47 t14 5.26168490194517
  u29 t23 5.11242646737594
  u22 t9 4.76180431948211
  u32 t37 5.10410733461273
  u19 t7 4.03361830010156
 u33 t28 3.23766242680217
 u37 t8 3.27027477143896
 u27 t17 2.93389670614059
 u23 t25 1.67775675988153
u9 t49 1.64974147715017
???
u44 t46 1.71523498289066
u21 t19 1.11627060278374
 ıu12 t18 4.55909574127469
 lu15 t42 4.08157634435274
 u3 t16 3.15133472195007
 ıu13 t24 5.11082267417832
 Lu46 t43 5.90255001356291 Lu46 t43 5.90255001356291 Lu46 t43 5.90255001356291
  u8 t48 5.11010806912915
  u35 t2 4.99624621950288
  u36 t36 4.46882760029119
 <sup>l</sup>u4 t44 3.78759653254036
 u1 t5 3.21728300940178
u31 t41 3.06644497319744
  u42 t27 3.3468699647419
               -u6 t31 2.65617643872884
                                             -u24 t40 6.03432433708552
                                             -u2 t50 5.26387276556186
  <sub>1</sub>u5 t22 4.8890616799568
  u50 t45 5.04218603762866
 u17 t38 4.00116129210536
 ıu30 t10 3.26859213725814
 u49 t15 3.11039064651279
 u45 t35 3.31723174080989
 u18 t26 2.28875540527007
u34 t32 0.247080521075986
u7 t4 1.59505704710215
```

coal: Simulated-no.17 (Remove 5)

Time vs Distance

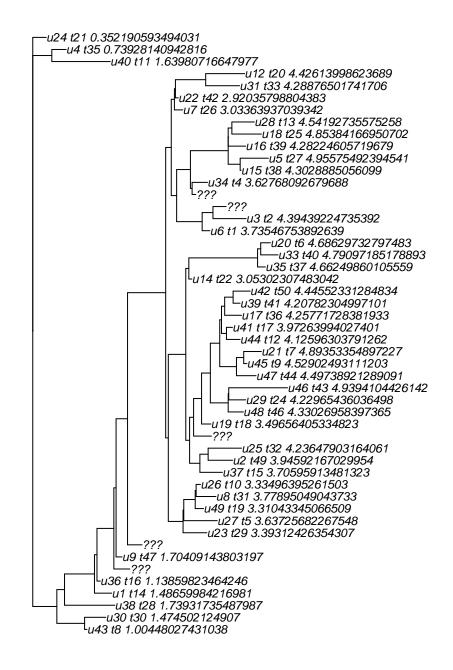


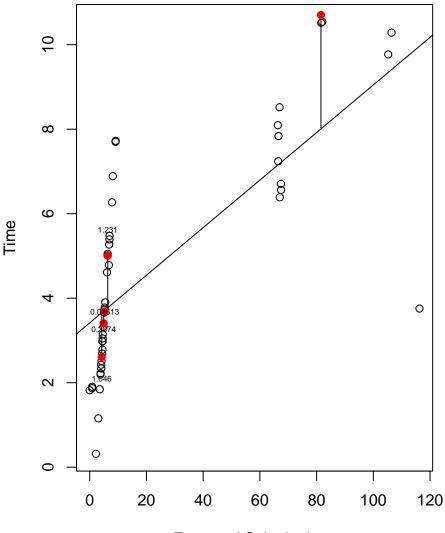
_lu12 t40 0.194655493379726 u33 t15 1.29106679080949 u37 t28 0.0453844128157167 ₁u50 t12 2.32809430759655 ru25 t44 5.10418898910309 -u44 t39 5.37257332267458 ^Lu38 t32 5.14834462135719 -lu43 t20 4.33172198847842 ^Lu40 t34 4.20487433889952 └u15 t10 3.69771537727352 u2 t6 2.32134470137091 ги45 t38 4.81567610526118 ¶u10 t18 4.34699118285948 lu1 t13 4.25743071600948 u7 t11 3.79784392768684 ru19 t14 4.90038851754938 u27 t5 4.32230099482979 lu4 t49 4.46540770042145 -u3 t48 5.28394229374986 lu36 t45 4.11616438278212 _u8 t31 5.3877385913298 u17 t21 4.61431601900806 -u48 t23 5.20204840217013 u42 t42 4.90815078739284 u11 t16 5.00235200896853 u14 t24 5.03599576220422 [¶]u21 t26 5.14491708093388 u5 t1 4.95978262287111 Lu41 t36 5.10691864618009 ¹u16 t22 3.89949685263842 u31 t9 3.7922238421357 u9 t3 3.23332676222572 ru32 t2 5.1583119801019 Lu34 t25 5.39578410034042 u29 t50 4.48187460475385 u26 t47 4.23138136125226 ¹u24 t30 4.23820536971162 tu23 t43 4.45169757173545 ¹u22 t17 4.58567138193237 ^lu13 t27 3.80137885099444 ^Lu18 t29 3.62375405282046 u30 t35 2.99048452021521 -u20 t41 3.53139738993221 ^lu39 t37 2.61555881271202 ^Lu6 t33 3.88293270107088



Expected Substitutions (Mean square error: 0.00430295)

coal: Simulated-no.18 (Remove 5)





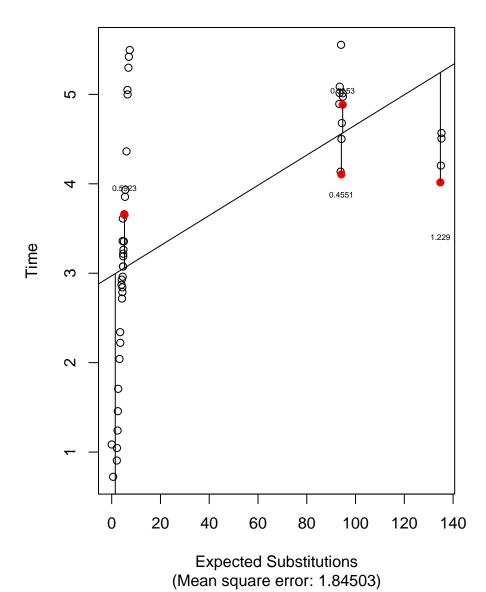
Expected Substitutions (Mean square error: 1.99086)

coal: Simulated-no.19 (Remove 5)

```
u22 t28 1.82123928205802
ги38 t32 1.1557012540511
u50 t6 0.316891375980318
<sub>Γ</sub>u7 t46 2.97726191531444
u5 t22 1.84472475845113
 u12 t42 2.51243771681671
 u24 t50 2.33646147283562
u36 t7 2.68959034269093
 u39 t29 3.04831602760699
u33 t40 3.14304367098538
 u29 t16 3.66200639319232
 u1 t14 5.05114357448663
u42 t27 5.01355784254163
 u21 t31 3.72450948333483
                                ıu18 t37 10.5425161397227
                                u34 t1 10.5204530050784
                                         ıu13 t8 9.76970175274894
                                         <sup>1</sup>u10 t48 10.2870419976608
   ru17 t35 7.70322778267999
   u35 t34 7.72517793126928
   u25 t11 6.88800618059105
   u32 t20 6.26965683919607
   u31 t4 5.26968715858228
   u9 t47 5.4761912376663
   u46 t2 5.39192196632032
  u27 t39 4.61323677279436
  <sup>l</sup>u11 t43 3.90295459101509
  u43 t19 2.97948468047393
  u16 t45 3.77923890612202
 u6 t3 3.32194562549671
  ru8 t17 4.78341685162023
 u20 t15 2.1940135275301
 u3 t33 2.42625986111623
 u15 t36 2.78106994154805
 u26 t18 2.22470608452858
                                             -u49 t21 3.75547514651112
                          u28 t30 8.52010420386884
                         u40 t12 8.09584789633241
                          ru2 t38 6.70761711621011
                          u41 t25 6.56301084241712
                          u37 t9 6.38890203878924
                          u23 t24 7.24077316601634
                         <sup>l</sup>u14 t5 7.83843678512143
u48 t23 1.86926964152892
<sup>1</sup>u4 t41 1.90335701546382
```

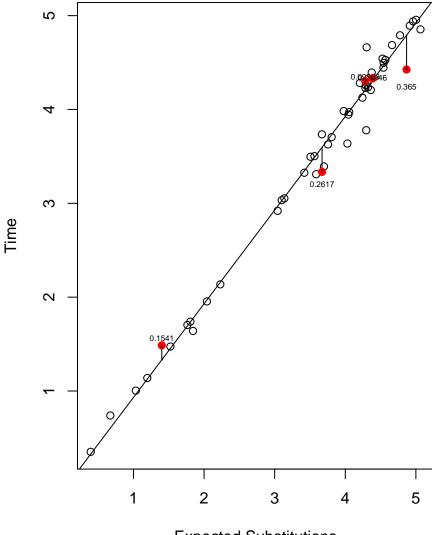
coal: Simulated-no.20 (Remove 5)

Time vs Distance



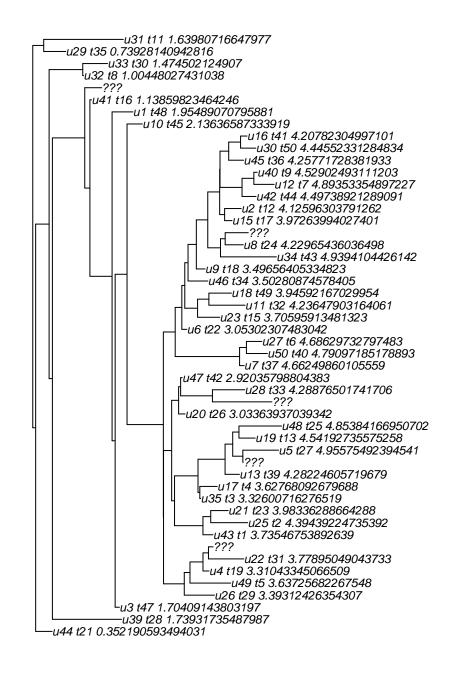
u31 t36 1.0852033083708 u30 t10 0.723581283603678 ru39 t26 2.34097069742324 u3 t28 1.04558246623958 u5 t22 2.22194939746573 ·u42 t25 1.45757494391226 u1 t13 2.04120682621204 ıu48 t6 2.96105186702752 u8 t3 3.21892334410841 u33 t47 3.65924761519539 u25 t44 3.07588498107007 u50 t29 2.84200467872162 u18 t5 2.71681141568655 u37 t31 3.26199509440355 u24 t20 3.18988648364878 u6 t41 2.78895490363107 ru22 t40 4.99962130610321 u40 t34 3.85442836819458 u45 t15 3.93328768010973 u20 t27 4.36282934843918 ₁u10 t16 5.42071576635052 u21 t2 5.29831631414537 u34 t9 5.04969531504399 ^Lu7 t12 5.49622097922922 u23 t24 3.07555186401669 -u36 t43 3.35598950371373 -u2 t14 2.92837335264961 u16 t48 1.70727327223822 ıu43 t50 3.3606334975575 u46 t4 3.61125417231769 u19 t35 2.87097807601615 ru38 t18 4.56843987009799 u14 t19 4.50633754513033 ¹u49 t46 4.20401574089504 ru47 t45 4.97509342526189 u35 t8 4.5016544291516 u27 t33 5.01223021939249 u29 t42 4.67946608331333 u32 t39 4.13615590124243 u17 t37 5.08597008263068 u44 t30 5.01528299001829 u26 t21 5.5545085078039 u15 t17 4.89317367486604 u13 t1 0.90591489255101

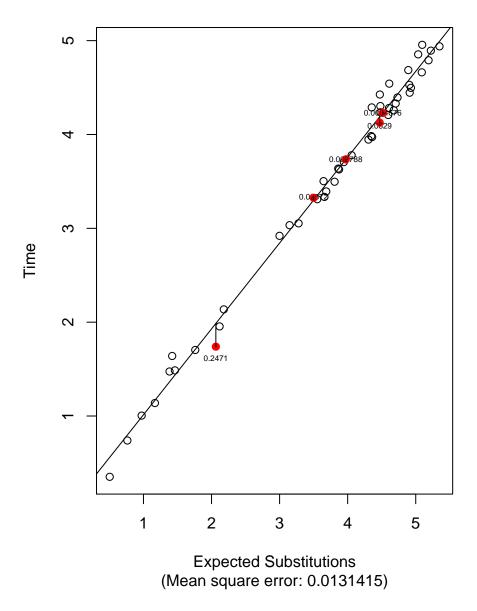
^Lu4 t32 1.24114548256182



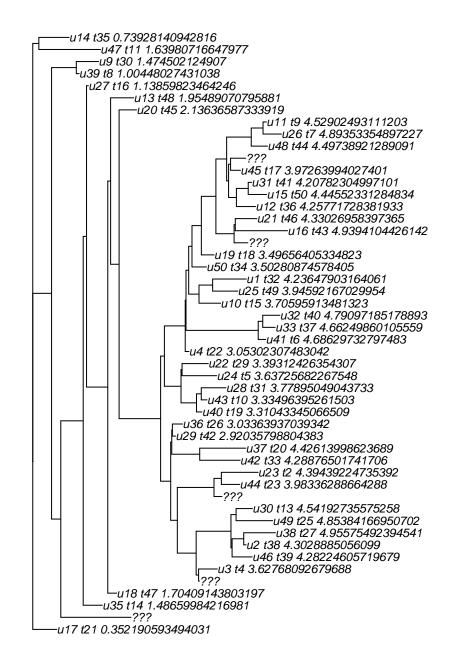
Expected Substitutions (Mean square error: 0.0470018)

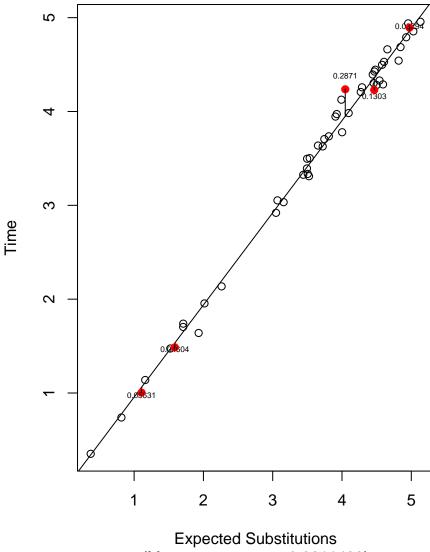
coal: Simulated-no.21 (Remove 5)





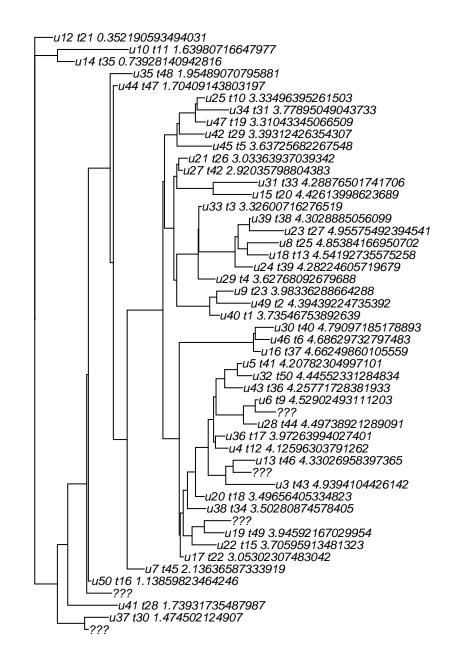
coal: Simulated-no.22 (Remove 5)

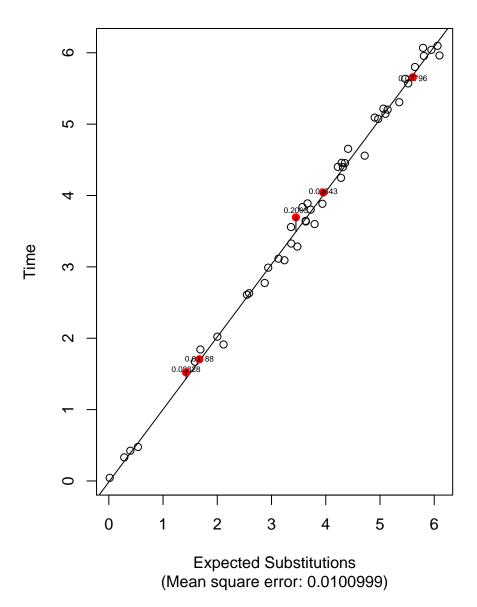




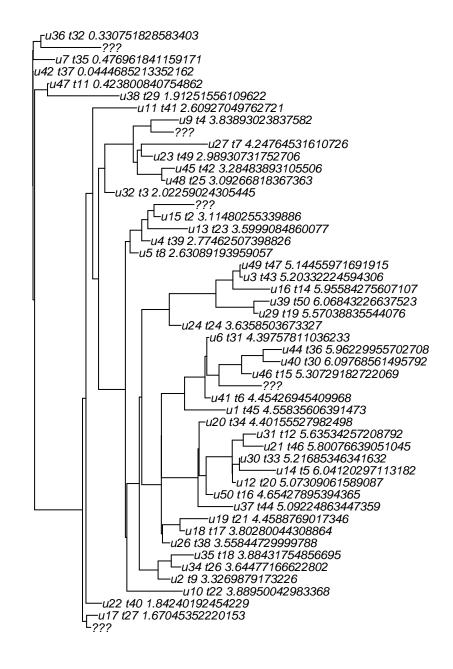
(Mean square error: 0.0211489)

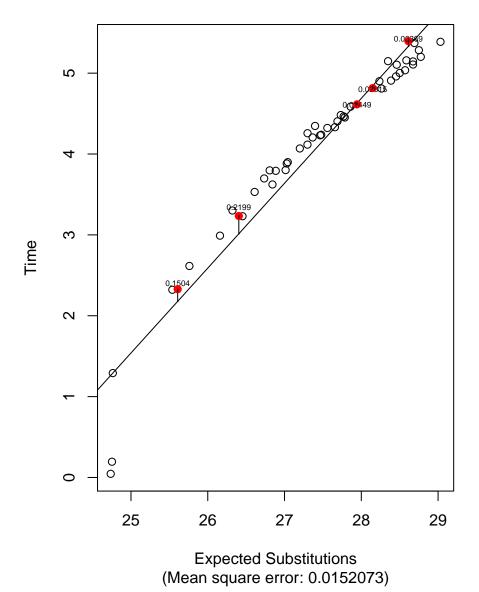
coal: Simulated-no.23 (Remove 5)





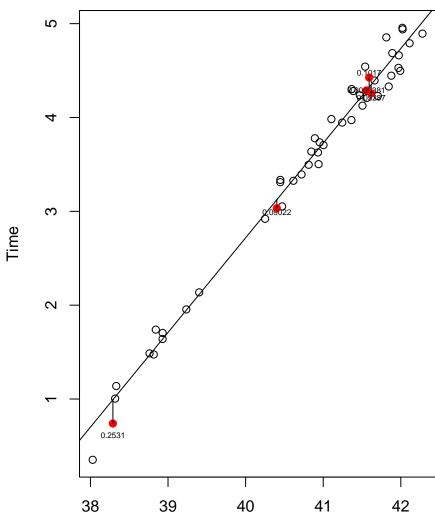
coal: Simulated-no.24 (Remove 5)





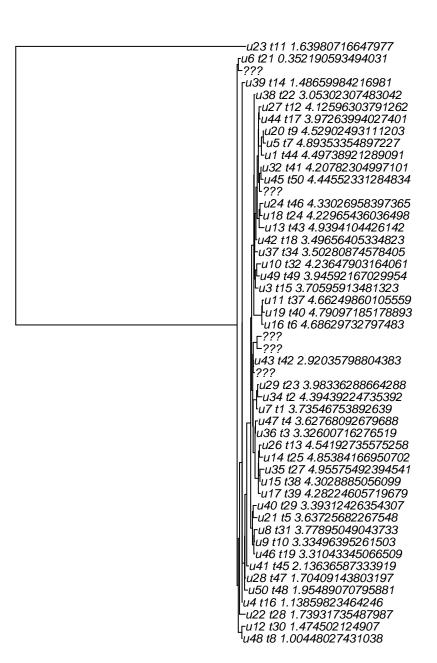
coal: Simulated-no.25 (Remove 5)

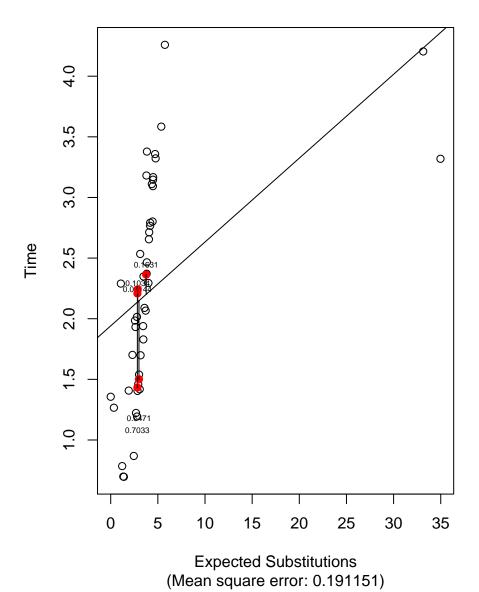
```
·u13 t15 1.29106679080949
<sub>1</sub>u3 t28 0.0453844128157167
<sup>∏</sup>u26 t40 0.194655493379726
 <sub>1</sub>u7 t6 2.32134470137091
     ıu23 t18 4.34699118285948
     <sup>L</sup>u47 t13 4.25743071600948
    <sup>L</sup>u17 t11 3.79784392768684
   u4 t8 3.30158240968945
      -u24 t23 5.20204840217013
      ıu8 t42 4.90815078739284
      <sup>⊫</sup>u10 t16 5.00235200896853
      <sub>1</sub>u19 t24 5.03599576220422
       <sup>1</sup>u33 t26 5.14491708093388
       u6 t4 4.80981248813696
       <sup>L</sup>u1 t1 4.95978262287111
       -u20 t36 5.10691864618009
       -u46 t31 5.3877385913298
      −u21 t14 4.90038851754938
      -u12 t49 4.46540770042145
      <sup>l</sup>u9 t5 4.32230099482979
       -u32 t48 5.28394229374986
     -u40 t45 4.11616438278212
    <sup>L</sup>u18 t22 3.89949685263842
    -u42 t41 3.53139738993221
  -u44 t35 2.99048452021521
     ıu25 t47 4.23138136125226
     u36 t30 4.23820536971162
      -u49 t2 5.1583119801019
      ru41 t46 4.40433855245625
     <sup>L</sup>u28 t50 4.48187460475385
     u45 t27 3.80137885099444
     <sub>г</sub>и50 t43 4.45169757173545
     <sup>1</sup>u22 t17 4.58567138193237
    <sup>L</sup>u15 t29 3.62375405282046
    <sub>L</sub>u37 t9 3.7922238421357
    <sup>1</sup>u30 t7 4.06890721840226
  u48 t37 2.61555881271202
    -u27 t33 3.88293270107088
  -u31 t10 3.69771537727352
      ∟u16 t39 5.37257332267458
      <sup>L</sup>u38 t44 5.10418898910309
      <sup>∟</sup>u43 t32 5.14834462135719
     <sup>L</sup>u2 t20 4.33172198847842
     -u11 t34 4.20487433889952
   u14 t19 3.2307794093563
```



Expected Substitutions (Mean square error: 0.0182368)

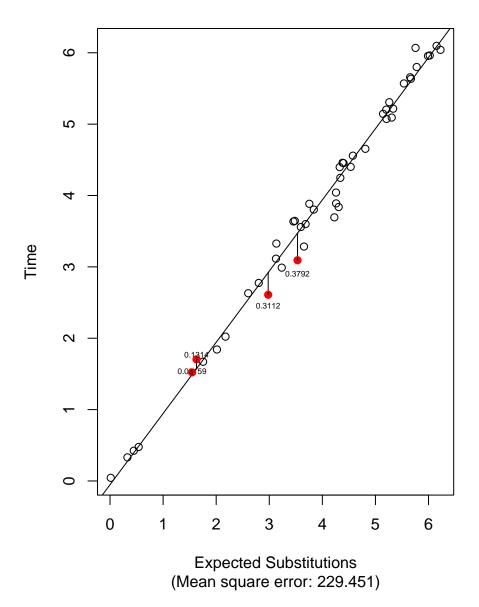
coal: Simulated-no.26 (Remove 5)





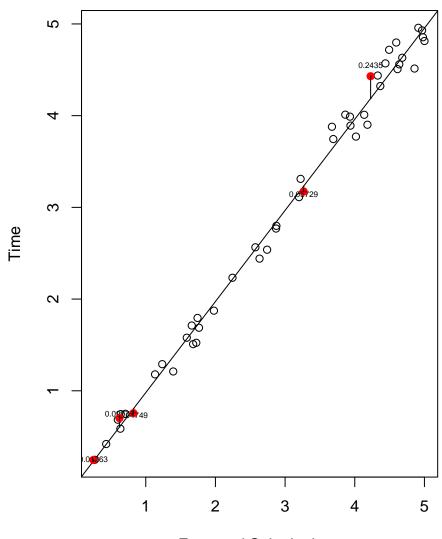
coal: Simulated-no.27 (Remove 5)

```
<sub>1</sub>u18 t11 1.35664025734764
–u42 t8 2.28978984703418
   ıu28 t19 2.53434804789384
    -u20 t4 3.18115604693006
   -u11 t48 3.37854618928419
   <sup>L</sup>u39 t29 1.98502006106293
  └u3 t33 2.01508631081401
 <sup>L</sup>u4 t31 0.69638959413981
  <sub>J</sub>u30 t14 1.40757797638705
  -u21 t42 1.70180317122294
   -u2 t27 1.93161098718769
  u8 t13 0.698330841023159
   ru19 t10 2.06698405507344
   <sup>1</sup>u48 t26 2.34862129525803
   ·u46 t38 0.868189755854378
   -u47 t25 1.22306308945292
                                             -u7 t18 4.20418933339617
   ∟u22 t34 1.41863368751755
                                               -u16 t6 3.31909519137299
   ru26 t5 2.0893549029927
     Ju45 t47 3.09350143819102
     <sup>[</sup>u17 t39 3.14655622231428
     u32 t46 2.76622820786469
     <sup>1</sup>u38 t24 2.79158519809039
     └u14 t2 3.32255221638662
     ıu13 t16 3.35809779177486
     <sup>1</sup> Lu25 t23 4.25896365613445
     u15 t50 3.11052863552971
    u50 t28 2.46521887911982
    -u40 t36 1.82937149321879
   <sup>l</sup>u41 t3 1.19381333983421
   -u6 t32 1.53931131221032
   -u36 t41 1.40473032593404
   ıu35 t1 1.6985424101257
    ги34 t35 2.65504905247909
    -u33 t44 3.16758361329
    -u44 t7 2.71313322950564
    u5 t45 1.93916571669755
    -u43 t49 2.29465795629873
    ∟u31 t15 3.58424888699401
   Ц<sup>1</sup>и49 t37 2.801849719136
    lu9 t20 2.37133863837502
   <sub>Г</sub>и29 t22 1.46009663183671
 <sup>L</sup>u10 t12 0.784723473225353
lu23 t40 1.26609501264997
```



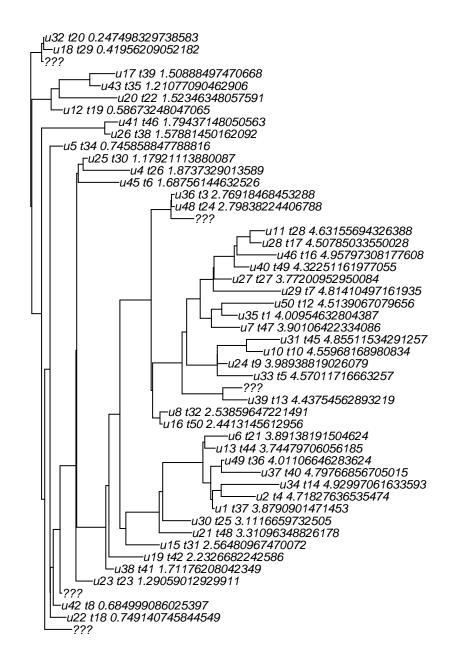
coal: Simulated-no.28 (Remove 5)

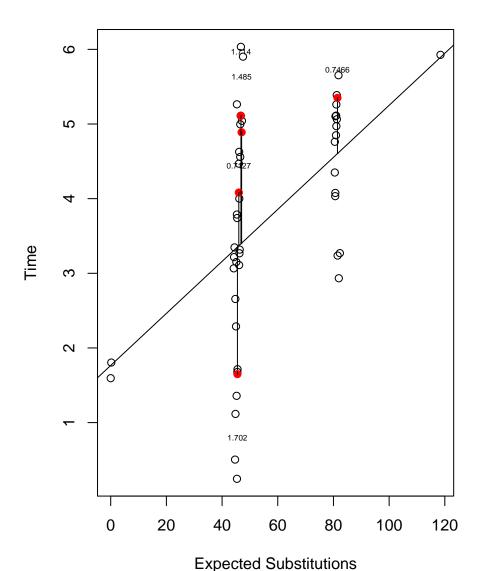
```
<sub>Г</sub>и13 t32 0.330751828583403
u5 t37 0.0444685213352162
-u18 t35 0.476961841159171
  -u34 t40 1.84240192454229
        <sub>1</sub>u6 t31 4.39757811036233
           ∟u19 t30 6.09768561495792
           <sup>L</sup>u46 t36 5.96229955702708
          -u16 t15 5.30729182722069
           -u23 t10 5.6574162933162
        <sup>l</sup>u14 t6 4.45426945409968
        -u49 t45 4.55835606391473
           ги15 t12 5.63534257208792
           <sup>L</sup>u33 t46 5.80076639051045
           -u12 t5 6.04120297113182
           <sup>1</sup>u20 t33 5.21685346341632
          <sup>l</sup>u32 t20 5.07309061589087
          ·u7 t16 4.65427895394365
         u47 t34 4.40155527982498
         <sup>L</sup>u38 t44 5.09224863447359
       u42 t38 3.55844729999788
      լս44 t17 3.80280044308864
       <sup>1</sup>–u50 t21 4.4588769017346
      ru28 t24 3.6358503673327
          <sub>-</sub>ru43 t50 6.06843226637523
          <sup>L</sup>u11 t19 5.57038835544076
          _u26 t14 5.95584275607107
          u3 t47 5.14455971691915
          <sup>l</sup>u35 t43 5.20332224594306
      ru17 t18 3.88431754856695
      <sup>1</sup>u30 t26 3.64477166622802
      <sup>L</sup>u29 t9 3.3269879173226
        -u45 t22 3.88950042983368
        -u40 t48 4.04120912378035
      u39 t2 3.11480255339886
       -u9 t23 3.5999084860077
     u41 t39 2.77462507398826
     <sup>L</sup>u22 t8 2.63089193959057
    u31 t3 2.02259024305445
     <sub>L</sub>u25 t49 2.98930731752706
        -u27 t7 4.24764531610726
      ru10 t42 3.28483893105506
      ru37 t4 3.83893023837582
       <sup>1</sup>–u24 t13 3.6937971165454
   <sup>L</sup>u48 t27 1.67045352220153
-u36 t11 0.423800840754862
```



Expected Substitutions (Mean square error: 0.014905)

coal: Simulated-no.29 (Remove 5)

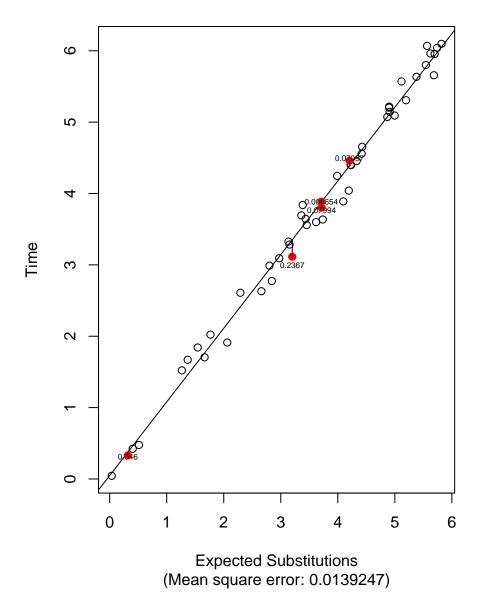




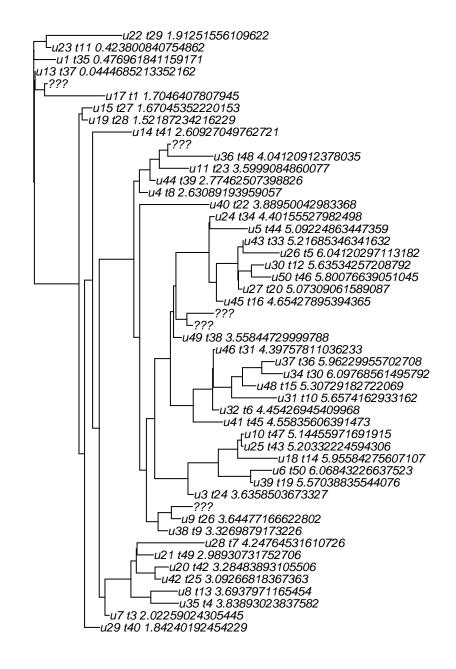
(Mean square error: 1.82115)

coal: Simulated-no.30 (Remove 5)

```
ıu32 t4 1.59505704710215
                ıu49 t27 3.3468699647419
                ru9 t18 4.55909574127469
                u46 t16 3.15133472195007
                 u10 t20 3.74066126584952
                 u45 t36 4.46882760029119
                 u4 t2 4.99624621950288
                 ги27 t43 5.90255001356291
                 u39 t24 5.11082267417832
                u15 t47 4.6272721465264
                u24 t44 3.78759653254036
                u7 t45 5.04218603762866
                <sup>l</sup>u1 t38 4.00116129210536
                u6 t5 3.21728300940178
                u22 t41 3.06644497319744
                ru25 t40 6.03432433708552
                u38 t50 5.26387276556186
                             ru43 t23 5.11242646737594
                                           -u40 t13 5.92686633047346
                              u31 t1 5.38725804177856
                              u42 t14 5.26168490194517
                              u26 t9 4.76180431948211
                              u37 t37 5.10410733461273
                              <sub>l</sub>u50 t17 2.93389670614059
                              lu12 t8 3.27027477143896
                              u14 t28 3.23766242680217
                              u41 t7 4.03361830010156
                              u13 t12 4.07691814633371
                              u11 t29 4.84905050255587
                              u20 t6 5.06364427993512
                              u30 t21 5.65364172975515
                              u35 t39 4.97159970185215
                             lu36 t34 4.35065774493989
                <sub>L</sub>u29 t31 2.65617643872884
                u18 t30 0.504486941575644
                u2 t32 0.247080521075986
                u47 t25 1.67775675988153
                u8 t3 1.35870214610097
                u19 t46 1.71523498289066
                u17 t19 1.11627060278374
                <sub>1</sub>u3 t10 3.26859213725814
                u23 t15 3.11039064651279
                <sup>l</sup>u44 t35 3.31723174080989
                lu33 t26 2.28875540527007
u48 t33 1.80472390478921
```

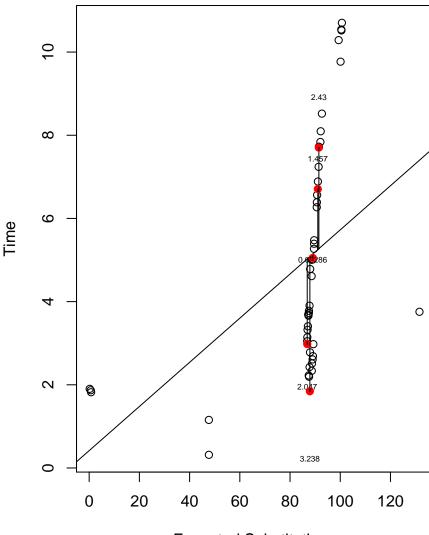


coal: Simulated-no.31 (Remove 5)

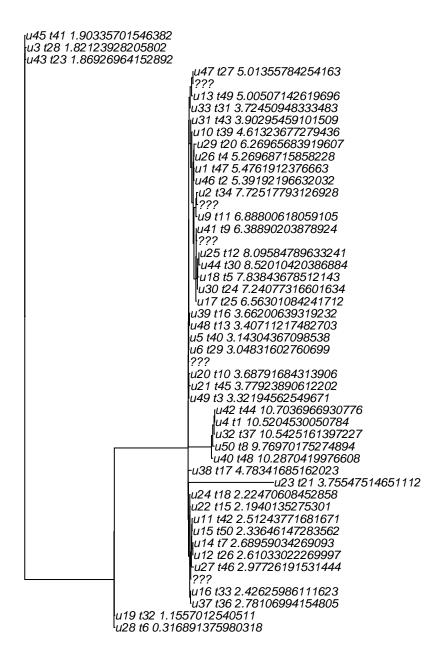


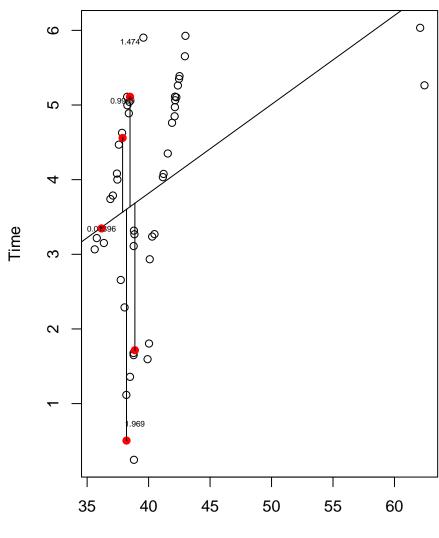
coal: Simulated-no.32 (Remove 5)

Time vs Distance



Expected Substitutions (Mean square error: 4.54311)





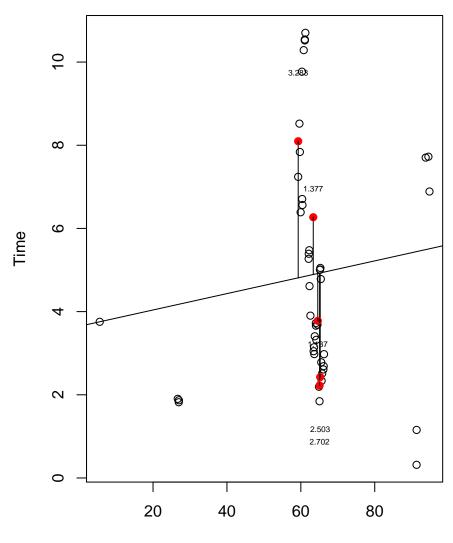
Expected Substitutions (Mean square error: 3.32749)

coal: Simulated-no.33 (Remove 5)

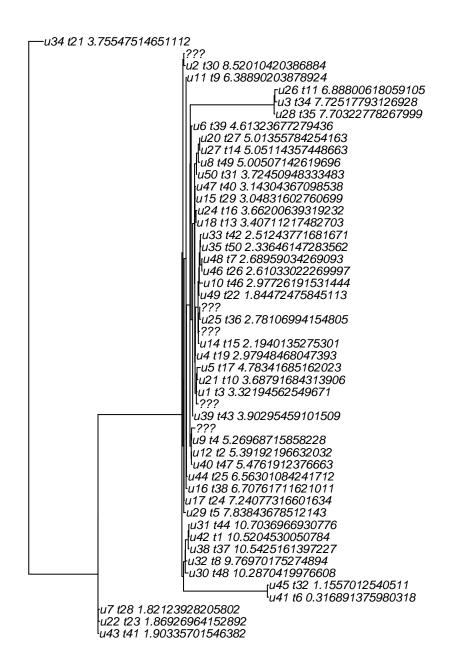
```
-u50 t40 6.03432433708552
                    -u7 t50 5.26387276556186
 ru29 t31 2.65617643872884
  ru43 t10 3.26859213725814
  Ju27 t15 3.11039064651279
  <sup>L</sup>u37 t35 3.31723174080989
  <sup>L</sup>u23 t26 2.28875540527007
   ıu35 t4 1.59505704710215
  . Pu6 t33 1.80472390478921
  lu15 t32 0.247080521075986
  u4 t19 1.11627060278374
    <sub>l</sub>u38 t7 4.03361830010156
    u44 t12 4.07691814633371
    -u46 t29 4.84905050255587
     ·u32 t23 5.11242646737594
     -u31 t13 5.92686633047346
     u22 t1 5.38725804177856
     u24 t14 5.26168490194517
    u39 t9 4.76180431948211
    u18 t37 5.10410733461273
    u20 t34 4.35065774493989
     ги2 t21 5.65364172975515
     u40 t6 5.06364427993512
     -u8 t11 5.35046918322249
     <sup>L</sup>u48 t39 4.97159970185215
    <sup>1</sup>u21 t28 3.23766242680217
   u49 t17 2.93389670614059
   <sup>1</sup>u41 t8 3.27027477143896
  u30 t25 1.67775675988153
  u42 t49 1.64974147715017
  u34 t3 1.35870214610097
  ıu5 t22 4.8890616799568
 √u3 t45 5.04218603762866
 <sup>1</sup>u13 t38 4.00116129210536
 ∏u36 t42 4.08157634435274
 u25 t16 3.15133472195007
 ги9 t2 4.99624621950288
 u47 t36 4.46882760029119
 ru16 t48 5.11010806912915
 Lu45 t43 5.90255001356291
 <sup>L</sup>u26 t47 4.6272721465264
 u12 t20 3.74066126584952
 <sup>L</sup>u19 t44 3.78759653254036
u28 t41 3.06644497319744
u11 t5 3.21728300940178
```

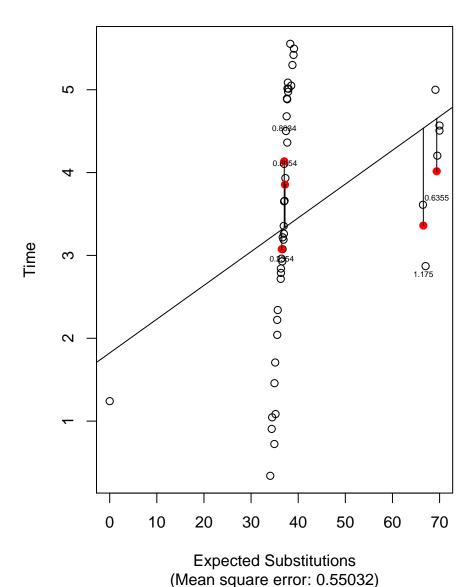
coal: Simulated-no.34 (Remove 5)

Time vs Distance

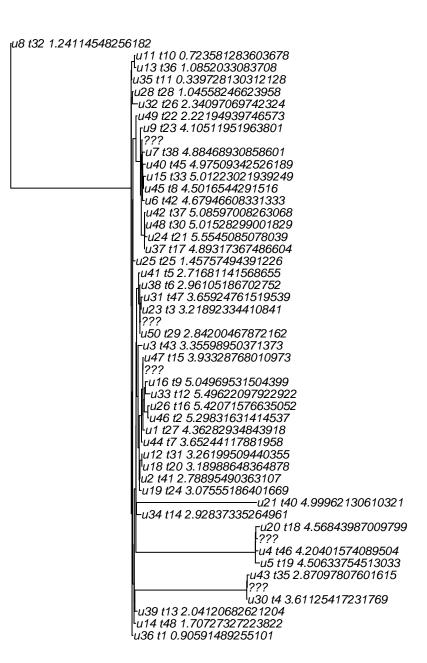


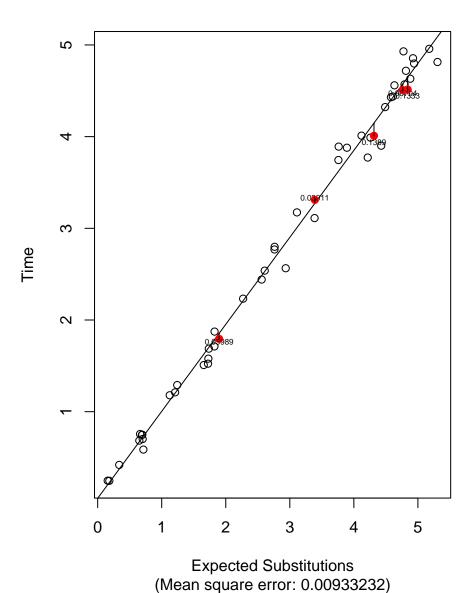
Expected Substitutions (Mean square error: 5.50703)



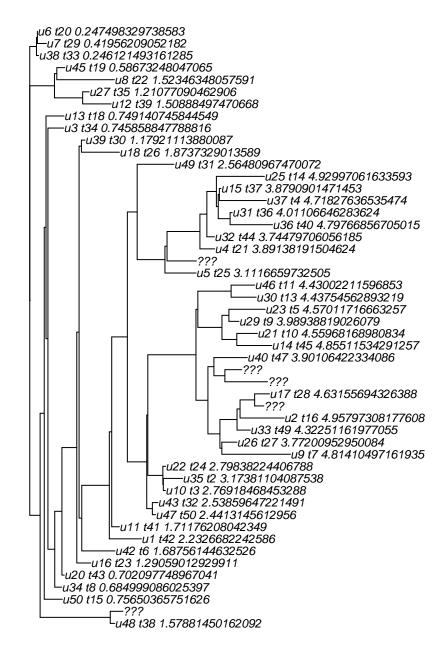


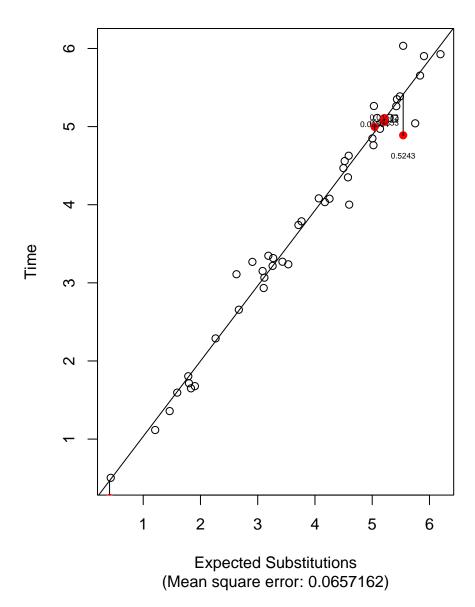
coal: Simulated-no.35 (Remove 5)



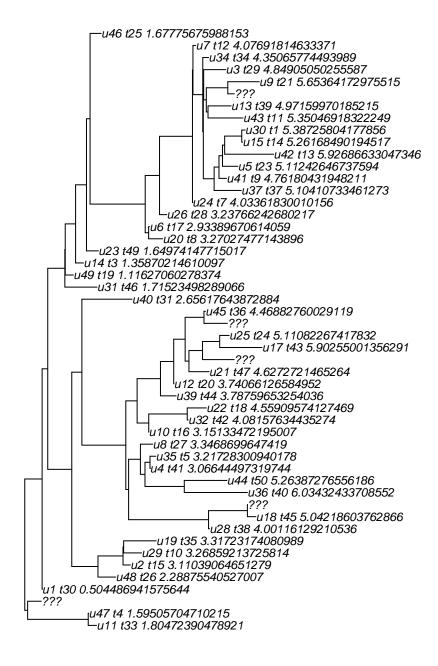


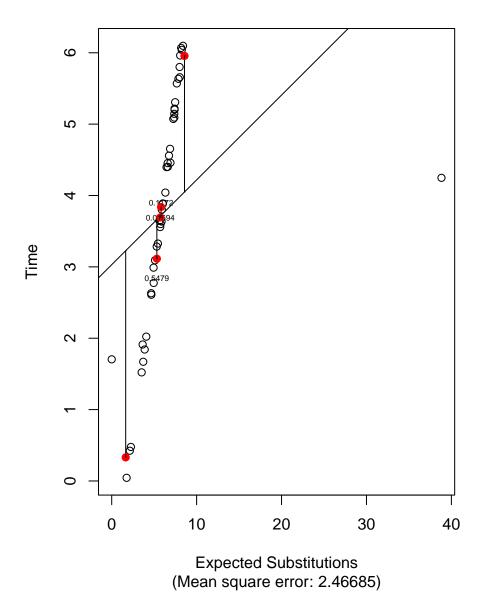
coal: Simulated-no.36 (Remove 5)





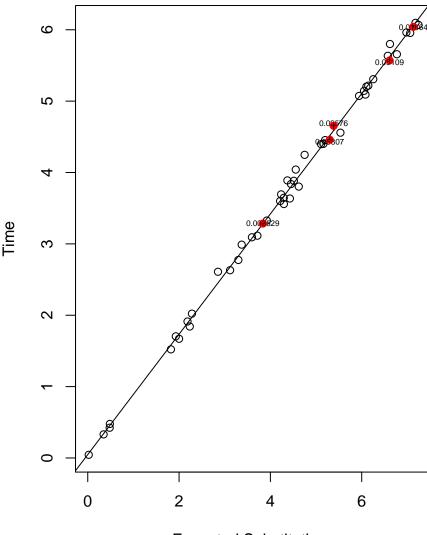
coal: Simulated-no.37 (Remove 5)





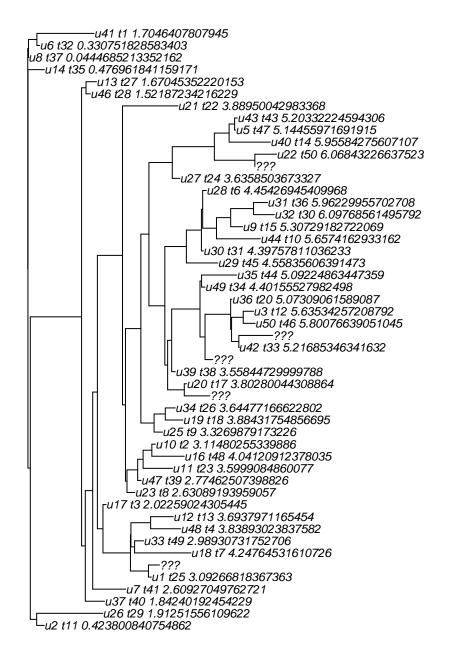
coal: Simulated-no.38 (Remove 5)

```
<sub>1</sub>u15 t1 1.7046407807945
 ru1 t35 0.476961841159171
 u10 t37 0.0444685213352162
 -u42 t11 0.423800840754862
   <sub>L</sub>u25 t27 1.67045352220153
    u44 t28 1.52187234216229
     └???
     -u41 t49 2.98930731752706
     ru46 t42 3.28483893105506
     <sup>1</sup>u17 t25 3.09266818367363
    u19 t3 2.02259024305445
     -u34 t41 2.60927049762721
      ∟u40 t21 4.4588769017346
      lu35 t17 3.80280044308864
        ıu24 t33 5.21685346341632
         -u20 t5 6.04120297113182
         ru7 t12 5.63534257208792
         <sup>L</sup>u28 t46 5.80076639051045
        <sup>l</sup>u45 t20 5.07309061589087
        u39 t16 4.65427895394365
       u36 t34 4.40155527982498
        <sup>∟</sup>u49 t44 5.09224863447359
      u21 t38 3.55844729999788
       ıu37 t31 4.39757811036233
        u48 t6 4.45426945409968
         ги31 t36 5.96229955702708
        <sup>⊥</sup>u33 t30 6.09768561495792
      ነዛu4 t15 5.30729182722069
        └u26 t10 5.6574162933162
       └u14 t45 4.55835606391473
       ıu2 t24 3.6358503673327
        <sub>1</sub>u9 t47 5.14455971691915
       \bigsqcup^{\mathsf{I}} u^{\mathsf{22}} t^{\mathsf{43}} 5.20332224594306
        ru23 t50 6.06843226637523
         <sup>7</sup>u32 t19 5.57038835544076
      ги3 t18 3.88431754856695
      <sup>L</sup>u11 t26 3.64477166622802
      <sup>L</sup>u27 t9 3.3269879173226
      ги43 t22 3.88950042983368
                                                 -u12 t7 4.24764531610726
      ∟u16 t48 4.04120912378035
     -u47 t23 3.5999084860077
     <sup>L</sup>u38 t39 2.77462507398826
     <sup>l</sup>u8 t8 2.63089193959057
    <sup>L</sup>u18 t40 1.84240192454229
    -u30 t29 1.91251556109622
```



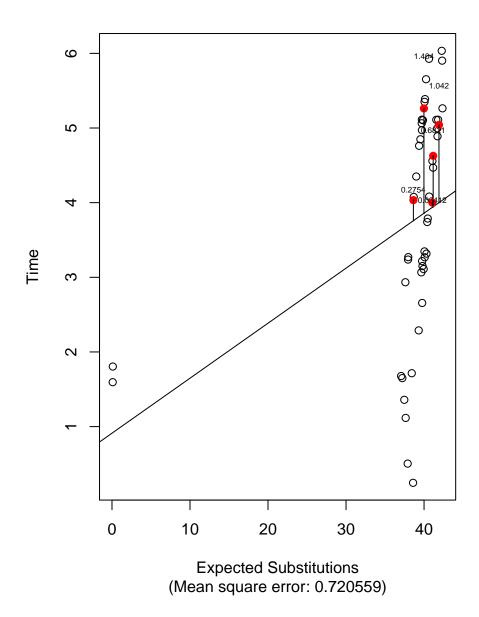
Expected Substitutions (Mean square error: 0.00213328)

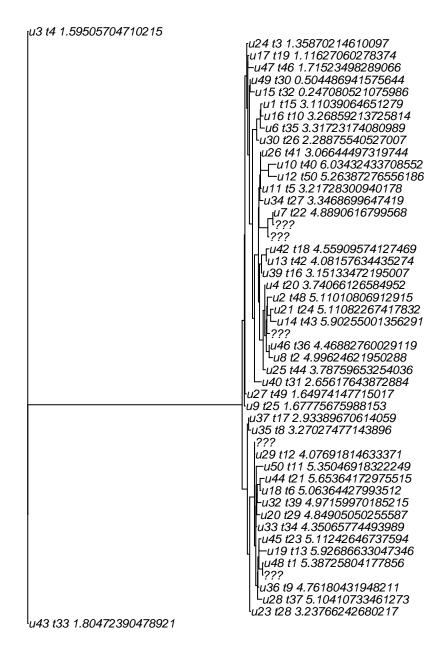
coal: Simulated-no.39 (Remove 5)

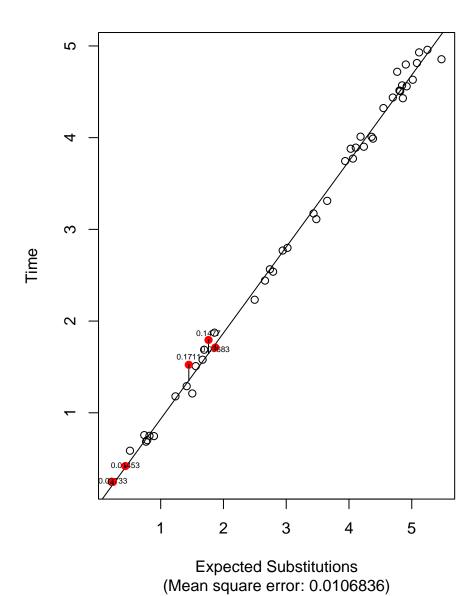


coal: Simulated-no.40 (Remove 5)

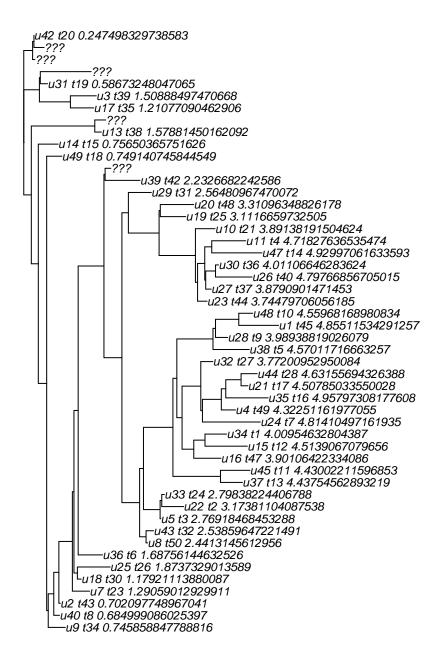
Time vs Distance

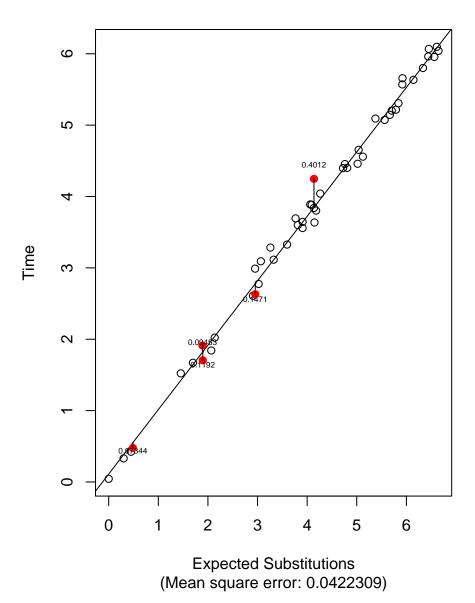




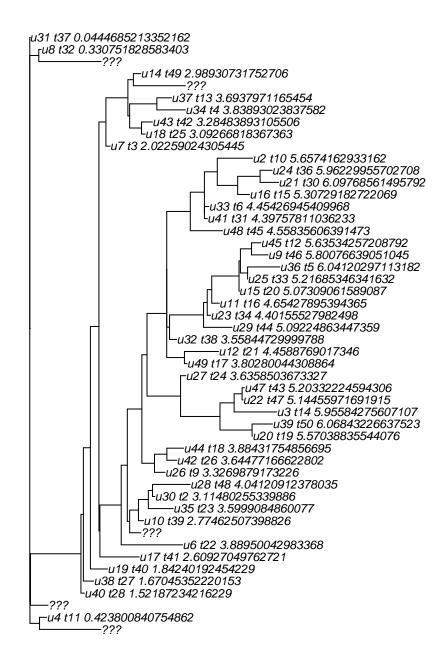


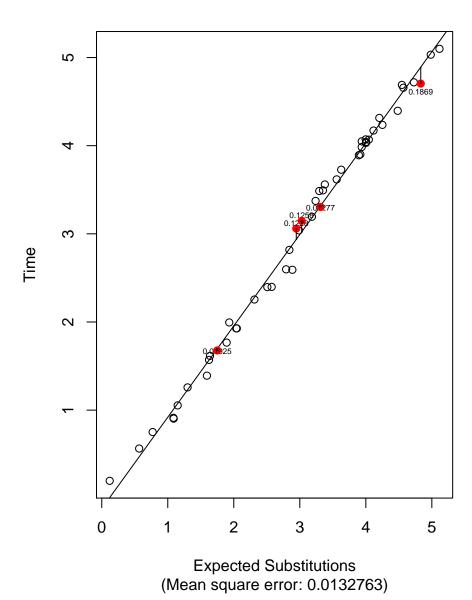
coal: Simulated-no.41 (Remove 5)



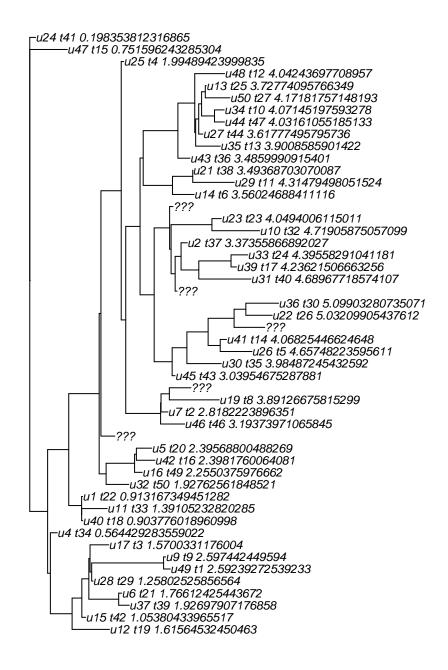


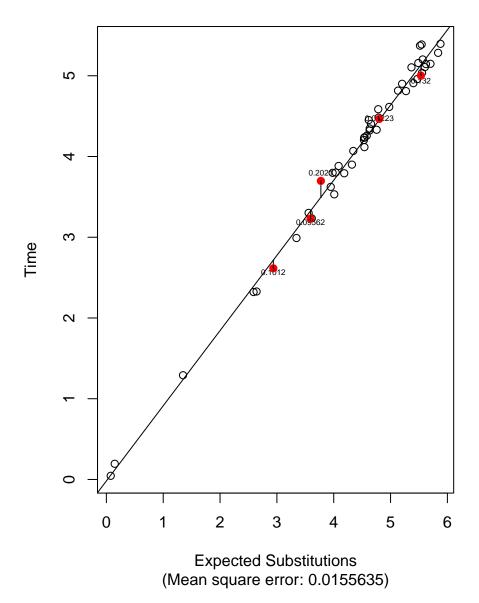
coal: Simulated-no.42 (Remove 5)



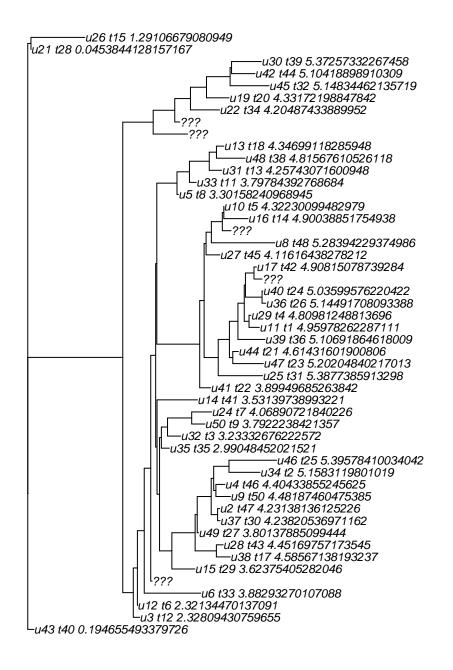


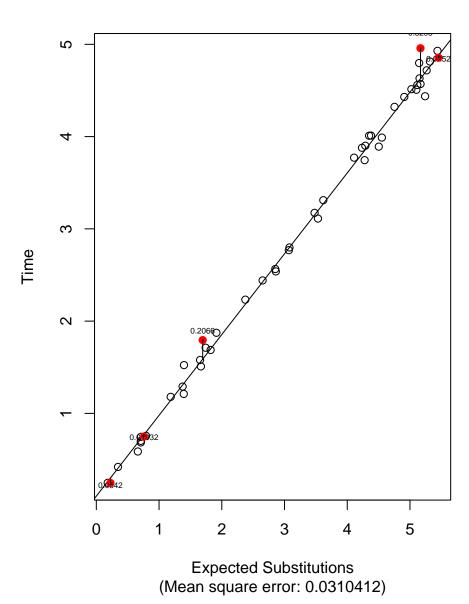
coal: Simulated-no.43 (Remove 5)



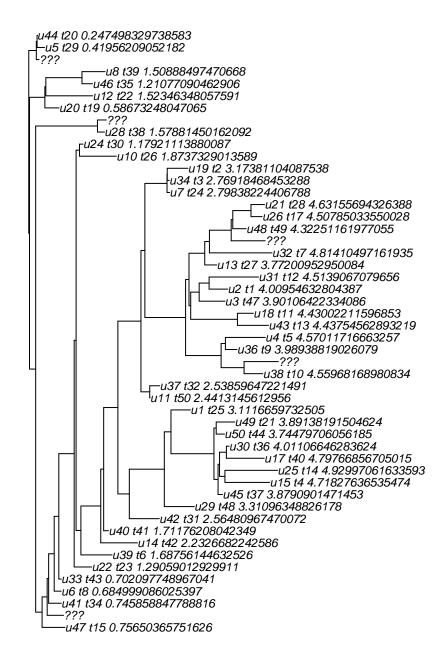


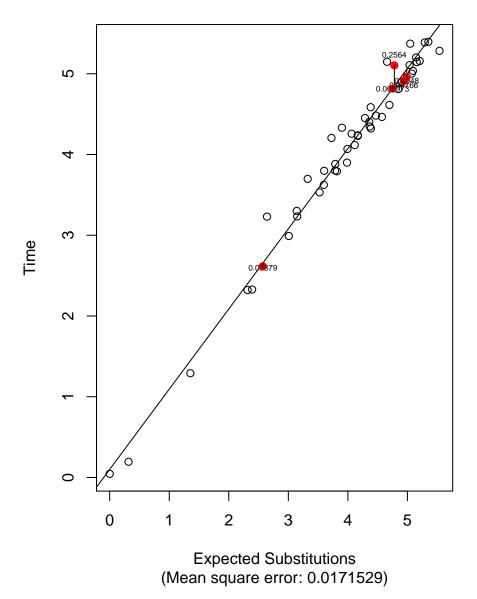
coal: Simulated-no.44 (Remove 5)



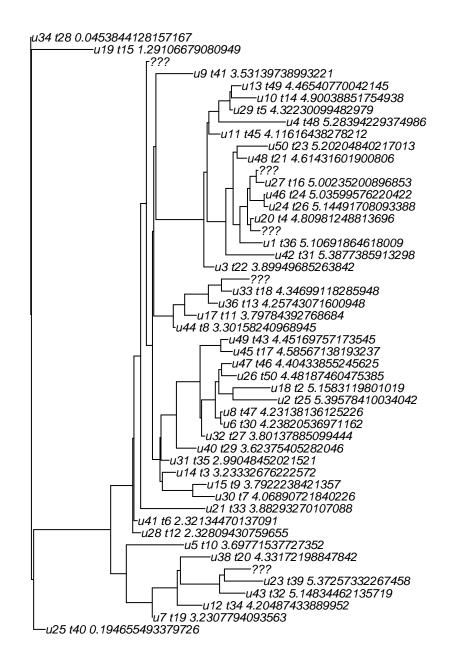


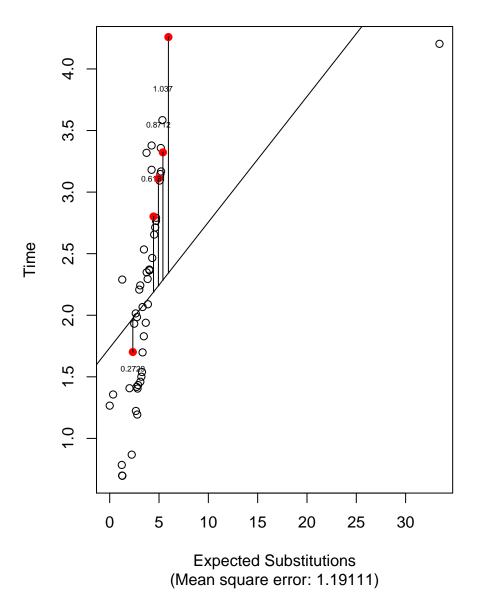
coal: Simulated-no.45 (Remove 5)





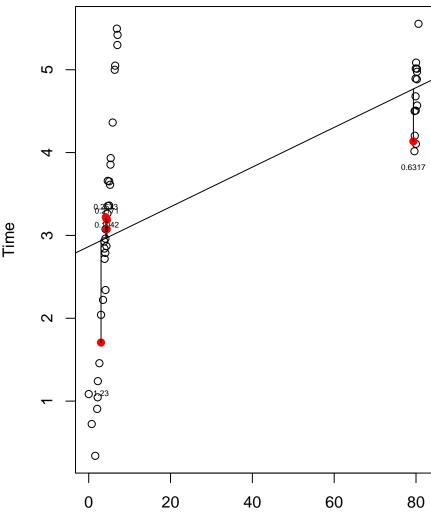
coal: Simulated-no.46 (Remove 5)





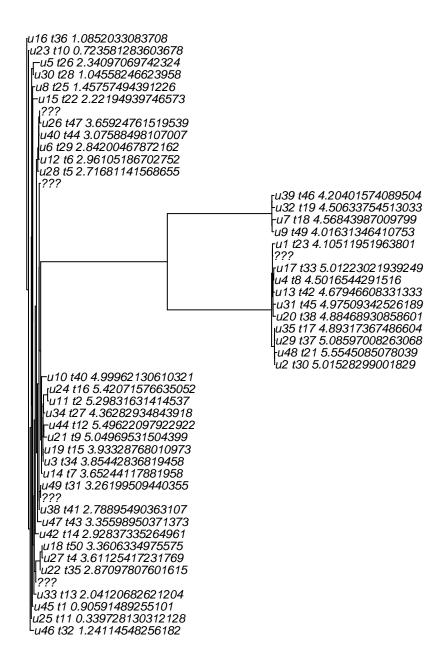
coal: Simulated-no.47 (Remove 5)

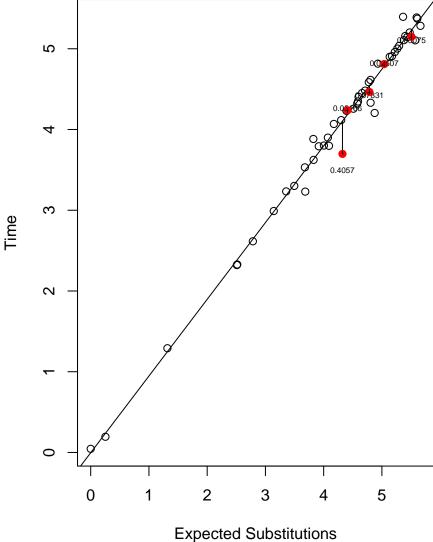
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<sub>1</sub>u7 t40 1.26609501264997
∟u43 t8 2.28978984703418
u29 t11 1.35664025734764
    <sub>l</sub>u23 t19 2.53434804789384
    -u3 t4 3.18115604693006
     -u44 t48 3.37854618928419
    u20 t17 2.24260922896442
    <sup>l</sup>u11 t21 2.20823785092076
   <sup>L</sup>u5 t29 1.98502006106293
  ∟u36 t33 2.01508631081401
                                             -u13 t18 4.20418933339617
 <sup>l</sup>u32 t31 0.69638959413981
   -u1 t6 3.31909519137299
  u24 t14 1.40757797638705
  -u25 t27 1.93161098718769
 u15 t13 0.698330841023159
   _ru19 t10 2.06698405507344
   <sup>1</sup>u33 t26 2.34862129525803
  u2 t38 0.868189755854378
   -u6 t25 1.22306308945292
   -u12 t34 1.41863368751755
   ru48 t36 1.82937149321879
      ıu31 t24 2.79158519809039
      u47 t46 2.76622820786469
     u39 t47 3.09350143819102
      lu50 t39 3.14655622231428
      <sub>1</sub>u41 t16 3.35809779177486
     u30 t28 2.46521887911982
     -u38 t5 2.0893549029927
   u8 t3 1.19381333983421
   ru40 t32 1.53931131221032
   <sup>L</sup>u37 t9 1.50111173491389
   -u27 t41 1.40473032593404
    ıu4 t1 1.6985424101257
    u14 t45 1.93916571669755
     _u42 t44 3.16758361329
     u34 t35 2.65504905247909
      -u28 t7 2.71313322950564
    <sup>1</sup>u35 t30 2.36417084781936
   H-u16 t49 2.29465795629873
    ru45 t20 2.37133863837502
      -u46 t15 3.58424888699401
  ru22 t43 1.43321261326704
   <sup>L</sup>u10 t22 1.46009663183671
 Lu26 t12 0.784723473225353
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Expected Substitutions (Mean square error: 0.407053)

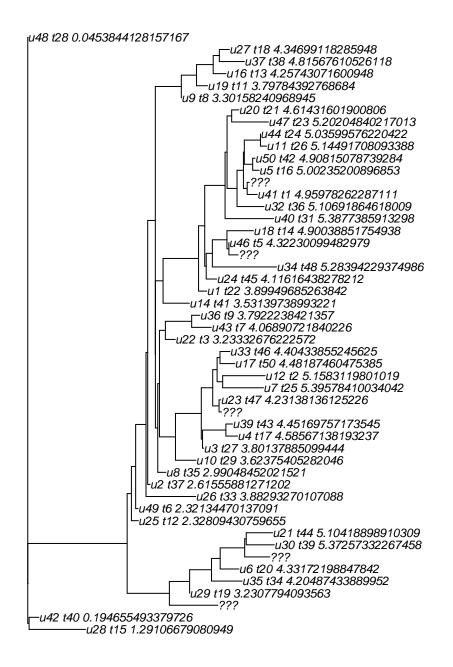
coal: Simulated-no.48 (Remove 5)

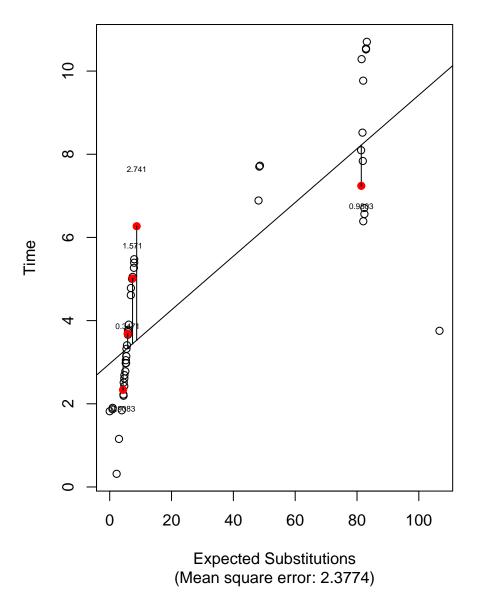




Expected Substitutions (Mean square error: 0.0361161)

coal: Simulated-no.49 (Remove 5)





coal: Simulated-no.50 (Remove 5)

```
u31 t28 1.82123928205802
ıu43 t6 0.316891375980318
                    ги20 t34 7.72517793126928
                    u50 t35 7.70322778267999
                                             -u44 t21 3.75547514651112
                    u30 t11 6.88800618059105
 Lu15 t17 4.78341685162023
 u49 t3 3.32194562549671
 u34 t45 3.77923890612202
  u42 t14 5.05114357448663
   u22 t49 5.00507142619696
  u2 t31 3.72450948333483
  <sub>l</sub>u27 t2 5.39192196632032
   u13 t47 5.4761912376663
   <sup>1</sup>u25 t4 5.26968715858228
  u19 t39 4.61323677279436
  u17 t43 3.90295459101509
  u45 t29 3.04831602760699
  u12 t40 3.14304367098538
  u37 t16 3.66200639319232
  u5 t13 3.40711217482703
  u6 t19 2.97948468047393
                                  u10 t9 6.38890203878924
                                  u4 t38 6.70761711621011
                                  u40 t25 6.56301084241712
                                  ·u41 t5 7.83843678512143
                                  u28 t12 8.09584789633241
                                  <sup>l</sup>u39 t30 8.52010420386884
                                  ıu33 t44 10.7036966930776
                                   u47 t1 10.5204530050784
                                  <sup>l</sup>u35 t37 10.5425161397227
                                  ·u24 t8 9.76970175274894
                                  <sup>L</sup>u32 t48 10.2870419976608
  u21 t15 2.1940135275301
 u46 t33 2.42625986111623
  <sup>l</sup>u38 t36 2.78106994154805
 u29 t18 2.22470608452858
 ıu23 t7 2.68959034269093
 u26 t26 2.61033022269997
 -u3 t46 2.97726191531444
 u1 t42 2.51243771681671
 u11 t22 1.84472475845113
<sup>L</sup>u8 t32 1.1557012540511
u36 t23 1.86926964152892
<sup>L</sup>u48 t41 1.90335701546382
```



