T5

update s + prev_piv

T6

update n + history c i]

T7

update s + prev_piv − history c i]

T8

no update

T9

update s + weight c k]

T10

No update

prev-piv => weight(k) - prev-piv(old)

T11

prev-piv = weight(k) + history(k)

No update

T12

update

w(i) = max(2.w(k), w(i) + prev_piv)

T 13

weigh [k] + history [k] in selection

$\alpha = 0.9$

no - update

T 14

weigh [k] + history [k] in selection

no update

$\alpha = 0.7$

T 15

weigh [0] + prev-pr in selection

prev-pr = weigh [k] - prev-pr [old θ]

$\alpha = 0.8$ no update

T 16

weigh [k] + prev-pr in selection no update

prev-pr = weigh [k] + history [k]

$\alpha = 0.8$

T17

T15 with $\alpha = 0.9$

T18

T15 with $\alpha = 0.7$

T19

T16 with $\alpha = 0.7$

T20

T16 with $\alpha = 0.9$

T21

sizes :dec

selectm is sizes

α 0.8

T22

T21 w/ α 0.7

T23

T21 w/ α 0.9

T24

sizes

selectm is sizes + prev-piv

α = 0.8 prev-piv = sizes(k)

T25

T24 w/ $\alpha = 0.9$

T26

T24 w/ $\alpha = 0.7$

T27

Selection of sizes

sizes computed as

std::max(size(a) + cnt(a)(c) ,
2 * (cnt(a)(c)))

Hasher ↓ (pointing to size(a) + cnt(a)(c))

IDCE ↑ (pointing to 2 * (cnt(a)(c)))

α 0.8

T28

T27 with $\alpha = 0.7$

T29

T27 w/ $\alpha = 0.9$

T30

Same idea as T27

but selects a size + prev-piv

$\alpha = 0.8$

T31

T30 w/ $\alpha = 0.7$

T32

T30 w/ $\alpha = 0.9$

T33

Same as T31

except list C(i) C(j) = best C(k) in

T34

T33 with $\alpha = 0$

T35

$\alpha = 1 \Rightarrow$ A*D

updot

T36

max weigh = max { weight(x) }

Same as T33

T37

Same as T33

except selection is size . degree

T38

same as T33

except selection is $\frac{\text{size}}{\text{max}}$. $\frac{\text{degree}}{\text{max}}$

T39

Same as T33 except selection is

$$\left(10 \cdot \left(\frac{\text{size}}{\text{max}}\right)\right) - \left(10 \cdot \frac{\text{degree}}{\text{max}}\right)$$

T40

T33 w/ only A

T41

T33 with weight(k) = Sum B(:,k)

T42

T33 w/ weight = mean (A(:,k))

T43

T33 with w(k) = Sum A(i,k) · i

T44

T33 with A' · A

T45

T33 with A' · A

& no dense cols

T45

T33 w/

sizes[k] += lst[k][j] · log2(lst[k][j])

T46

T45 w/ + prev_piv in selection

T47

T33

with lst[k][j] = weight[k] + prev_piv

(prev_piv = weight[k])

T48

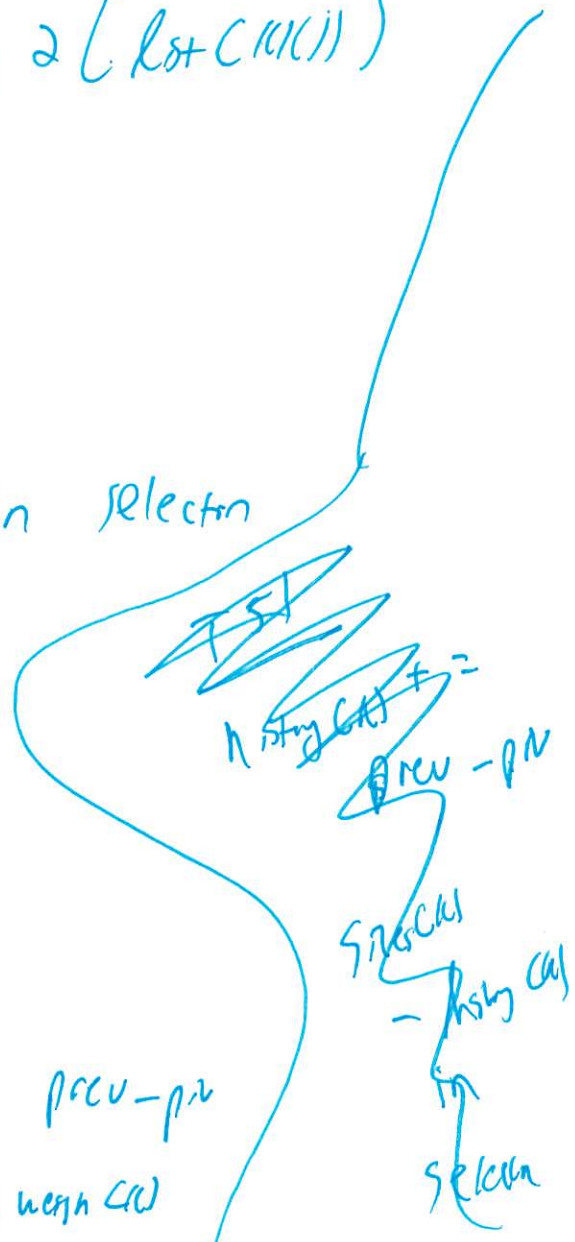
T33 w/ lst[k][j] = sizes[k] + prev_piv

prev_piv = sizes[k]

T49

T33 w/ lst[i][slot[i]] = std::max(2·sizes[k], sizes[k]·sizes[k]) − prev_piv

T50 | T46 w/ prev_piv



T51

same as T33

Update: hash[a][c] = std::max(size[a]-2 , size[c] + size[a] + prev_piv

T52

Same as T51 except size[c] + size[a] + prev_piv - hang[c]

T53

T52 except w/

unsigned

T54

selection : weight(k) + prev-piv - history(k)

update
max { w(i) + w(k), 2. w(k)]

T55

T54 w/ selection weight(k) + history(k)

T56

T54 w/ selection weight(k) + history(k)

& update is w(i) + w(k)

T57

T54 w/ update w(i) + w(k)

T58

T54 with hedonoid deg

T58

selection → weight(i)

update weight(i) = w(i) + prev − pw − history(i)

weight(i) = max(w(i) + w(i), 2 * w(i))

w(i) = w(i) − prev − pw

T59

T58 w/ no max just w(i) + w(i)

T60

T58 w/ selection → w(i) = w(i) + ~~w(i)~~ prev − pw − history

T61

Selection: weight(u) + prev-pw

Update: none

prev-pw = weight(u) + hashing(u)

α 0.8

T62

T61 α = 0.9

T63

T61 : α 0.85

T64

T61 α = 0.75

T65

T61 α = 0.7

T66

T61 α = 0.65

T67

T61 α = 0.6

T68

T61 α = 0.55

T69

T61 α = 0.5

T70

T61 α = 0.95

T71

Selecting: sites[i] += list[i][j]

Update: list[i][j] = updated[i] sites

$\alpha = 0.8$

T72

T71 w/ $\alpha = 0.95$

T73

T71 w/ $\alpha = 0.9$

T74

T71 w/ $\alpha = 0.85$

T75

T71 w/ $\alpha = 0.75$

T76

T71 w/ $\alpha = 0.7$

T77

T71 w/ $\alpha = 0.65$

T78

T71 w/ $\alpha = 0.6$

T79

T71 w/ $\alpha = 0.55$

T80

T71 w/ $\alpha = 0.5$

T81

selection: sites(k) t = list(k)(i)
update: list(k)(i) = sites(k)
w(k) = sum(A:,k)
$\alpha = 0.8$

T82
T81 $\alpha = 0.95$

T83
T81 $\alpha = 0.9$

T84
T81 $\alpha = 0.85$

T85
T81 $\alpha = 0.75$

T86
T81 $\alpha = 0.7$

T87
T81 $\alpha = 0.65$

T88
T81 $\alpha = 0.6$

T89
T81 $\alpha = 0.55$

T90
T81 $\alpha = 0.5$

T91

Selection S7ACS(1)[i] $\neq$ = lst(A)(i)

update: lst(A)(i) = STACK(1)

w(A) = i - A(i)(1)

$\alpha = 0.8$

T92

T91 $\alpha = 0.95$

T93

T91 $\alpha = 0.9$

T94

T91 $\alpha = 0.85$

T95

T91 $\alpha = 0.75$

T96

T91 $\alpha = 0.7$

T97

T91 $\alpha = 0.65$

T98

T91 $\alpha = 0.6$

T99

T91

$\alpha = 0.55$

T100

T91

$\alpha = 0.5$

T 101

Selection -> wcish(i) + prev-prv - hshy(i)

Update: w(i) = w(i) + prev-prv - hshy(i)

w(i) = ack (w(i) / w(i), 2 · w(i))

v(i) = w(i) - prev-prv

v(i) = Σ i · A(i)k1

α = 0.8

T 102

T101 α = 0.95

T 103

T101 α = 0.9

T 104

T101 α = 0.85

T 105

T101 α = 0.75

T 106

T101 α = 0.7

T 107

T101 α = 0.65

T 108

T101 α = 0.6

T 109

T101 α = 0.55

T 100

T101 α = 0.5

T111

size(A) += [list(A)()]

list(A)(i) = weight(k)

w(k) = (i - A(:,k))' sum

α = 0.8

T112

T111, α = 0.95

T113

T111 α = 0.9

T114

T111 α = 0.85

T115

T111 α = 0.~~95~~

T116

T111 α = 0.7

T117

T111 with

w(k) = sum(A(:,k))

X = 0.8

T118

T117 α = 0.95

T119

T117 α = 0.9

T120

T117 α = 0.85

T121

T117 α = 0.75

T122

T117 α = 0.7

T125 | T33 w/ A

T123

T101 w/ A Not A' A

T124

T101 w/ A and Hadoard style

T126

T123
with $L(k) = A(k,k)$

T127

T124 w/
$w(k) = A(k,k)$

T128

T127
with
$\deg(n)^2 \cdot weight(k) \cdot \log_2(weight(k))$

T130

$a = 0.8$

AMP

selection: weight(a) + prev_prior − history(a)

update: simulate IPGB

V(EM) = A(θ, M)

C = A

T131

T130 $\alpha = 0.95$

T132

T130 $\alpha = 0.9$

T133

T130 $\alpha = 0.85$

T134

T130

$\alpha = 0.75$

T135

T130

$\alpha = 0.7$

T136

$\alpha = 0.8$

w[k] = A[k,k]

C = A

Arr =

Selection weight[k] + prev-piv

prev_piv = weight[k] + history[k]

Update: None

T137

T136 $\alpha = 0.95$

T138

T136 $\alpha = 0.9$

T139

T136 $\alpha = 0.85$

T140

T136 $\alpha = 0.75$

T141

T136 $\alpha = 0.7$

T142

AMF w/ $A' \cdot A$

T143

AMINO w/ $A' \cdot A$

T144

T136 w/ $w(k) = \sum i \cdot A(k,k)$

T145

T136 w/ $w(k) = \sum A(k,k)$

T146

T130 w/ $w(k) = \sum i \cdot A(k,k)$

T147

T130 w/ $w(k) = \sum A(k,k)$

T149

T130 with score(k) · weigh(k) · log2(k)

T148

T130 w/ score(k) · weigh(k)

AMIND

Score(k) = Score AMP (k) + (deg(k) /) x |k|

(5)

T150

AMIF w/ Supernode

T151

AMMP w/ Supernode

T152

AMIND w/ Supernode

tran

Final Sample.pdf
12/13/15 06:49 PM

T153
T146 $\alpha = 0.95$

T159
T146 A'·A

T154
T146 $\alpha = 0.9$

T160
T146 A'+A

T155
T146 $\alpha = 0.85$

T161
T146
w = mean

T156
T146 $\alpha = 0.75$

T162
T146
w = min

T157
T146 $\alpha = 0.7$

T163
T146 w = max

T158
T146 $\alpha = 0.5$

T165
T130
A'·A rcat·screen

T164
T146
w = sum(A(:,k))

T166

T146 w/ no
deck col record

T167

T146 w/ weighted
sum stops at k

T168

T130 w/
$w(k) = \Sigma (k-i) \cdot A(i,k)$

T169

T130 w/
$w(k) = \Sigma A(i,k) + 2 \cdot A(k,k)$

T170

T169 w/ $3 \cdot A(k,k)$

T171

T169 w/ $4 \cdot A(k,k)$

T172

T169 w/ $5 \cdot A(k,k)$

T173

T169 w/ $n \cdot A(k,k)$

T174

T169 w/ $k \cdot A(k,k)$

T175

T130 with weights
from $A' - A$,
operators on
A

T176

T130 get w
before cs f_deep

T177

T146 with w(k)
here
final

T178

T169
w/ $(n-1) \cdot A(k,k)$

T179

MG
AMD-> Coarsest

T180

T179 w/

max mesh = mesh adj sizes

T181

T179 with AMGRP style

T182

T180 with AMGRP style

T190

MG AMG
WCM = $\frac{\text{EAik}}{\text{max(Aik)}}$

T183

MG
AMF + Supernode

T184

MG AMMF + Supernode

T185

MG AMGRP + Supernode

T186

MG AMMF w/

max level = nCM

T187

MG AMMF w/

SizesCM = SizesCM / nvCM

T188

MG AMMF w/

SizesCM = SizesCM / max mesh = wCM

T189

T188 w/

prev-pw = wCM / nvCM

Using CM = wCM / nvCM

T191

AMNF

$w(k) = \frac{EA(i,k)}{\sum_{i=1}^{n} CA(i,k)}$

T192

T191 $\alpha = 0.75$

T193

T191 $\alpha = 0.7$

T194

T191 $\alpha = 0.85$

T195

T191 $\alpha = 0.9$

T196

T191

$\alpha = 0.65$

T197

T191

$\alpha = 0.6$

T198

No α. Use $w(k)$ as the breaker only

AMNF

T199

T191 $\alpha = 0.55$

T200

T191 $\alpha = 0.5$

T201

NO AMNF with supernode did $w(k) \neq w(i)$ in supernode

T202

Tries to replicate T1/6

T203

Idea 1 on paper

only use supernode

in mass elim

$W(A) = \sum_{i} |A(i)| - |A|$ ALL

T204

Full Supernode

Max size = $\sqrt{n}$

T205

Full Supernode

max size = n

T206

T202 with [illegible]

T202 w/ cliques(i)

= max(winds-1, cliques(i))

T207

~~T203~~ T205 (full sup'n)

with clique check

T208

T1/6 style

using p2 and

no dense node

T209

no Aggressive absorption

T146 style

T215

normal git TSP with p2

T210

convex score ≤ 1.05 min

& w[j] < v[i]

T216

T146 style (nex size instead w/ sorted list of best cols

T211

convex score ≤ 1.05 min

& score[j] < score[i]

T212

Use p2 for 211

T213

Use p2 for 210

T214

Use p2 for 209

T217

Corrected T146

T218

Corrected T146 in AND_CONCAT

T219

T218 no Aggressive absorption

T220

T218, max width = max(sizes)

T221

T218 with P2

T222

T221 w/ Dense column Thy

T223

T218 with

$S(OCC_j) \subset FOR(A)$

$\subset COAV(j) \subset CONCAT - 1.0$

T224

T223 with $W(j) \subset VCH$

T225

T218
Mesh
Sun stops
at k

T226

T218
w(k) = Σ R(i)

T227

T218
~~Offset = 2~~ w(k) = mean(A(:,k))

T228

T218
w(k) = min(A(:,k))

T229

T218 w(k) = max(A(:,k))

T230

T218
w(k) = A(k,k)

T231

T218
w(k) = A(x(i)·k-i

T232

T218
w(k) = n · A(k,k)

T233

~~T218 with Supermode~~
T270 with P2

T234

T240 with supernode

T226 w/ p2

T235

T229 with p2

T236

T232 with p2

T237

T218 supernode only less elin

T238

T237, mcx size √n

T239

T237 mcx size 50

T240

T218 supernode full

T241

T240 mcx size √n

T242

T240 mcx size 50

T243

T237, AMMF style

T244

T240, AMMF style

Mg 6

α = 0.8

w(A) = min

Mg 7

α = 0.8

w(A) = max

Mg 8

α = 0.8

w(A) = mean

Mg 9

α = 0.95

w(A) = sum

Mg 10

α = 0.9

w(A) = sum

Mg 11

α = 0.85

w(A) = sum

Mg 12

α = 0.75

w(A) = sum

Mg 13

α = 0.7

w(A) = sum

Mg 14

α = 0.65

w(A) = sum

Mg 15

α = 0.6

w(A) = sum

Mg 16

α = 0.55

w(A) = sum

Mg 17

α = 0.5

w(A) = sum

Mg 18

α = 0.45

w(A) = sum

Mg 19

α = 0.4

w(A) = sum

Mg 20

α = 0.9

w(A) = A(A,K)

Mg 21

α = 0.7

w(A) = A(A,K)

Mg 22

α = 0.6

w(A) = A(A,K)

Mg 23

α = 0.5

w(A) = A(A,K)

Mg 24

α = 0.4

w(A) = A(A,K)

Mg 27

α = 0.8

w(A) = A(A,K)

A = 0

commercial

Mg 26

α = 0.8 w(A) = A(A,K)