ENTS 656

Introduction to Cellular Communications

Spring 2017

Project Report

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# Questions

**Q1:** what is the ratio of the number of dropped calls to the number of completed calls? What is the main reason for call failure? Are blocks for channel capacity?

Statistics after 2 hours are:

Number of call attempts not counting retries: 11610

Number of call attempts including retries: 21263

Number of dropped calls: 4721

Number of blocked calls due to signal strength: 3881

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2979

Number of calls in progress: 24

Number of failed calls (blocks + drops): 8467

Current cell radius(km): 8.85268106109

Current Pilot EIRP is: 52.0

4721/2979 = 1.584

Major source of Blocks is due to Signal Strength and Drop due to Low SINR. Low SINR can be a result of Weak Signal as well as High Interference.

Zero Blocks due to Capacity

**Q2:** Change the values of Cd and Ci to 20 and 15 respectively. What happens to your statistics? What is the ratio of dropped calls to completed calls now? How has the number of blocked calls changed? What is the effect on the cell radius?

Statistics after 2 hours are:

Number of call attempts not counting retries: 11850

Number of call attempts including retries: 31998

Number of dropped calls: 31

Number of blocked calls due to signal strength: 9794

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2005

Number of calls in progress: 15

Number of failed calls (blocks + drops): 9640

Current cell radius(km): 5.42263689015

Current Pilot EIRP is: 37.0

* Call Attempts with Retry has increased significantly.
* Number of Dropped Calls has reduced significantly.
* Blocked calls dur to Signal Strength Increased significantly.
* Successfully completed calls has reduced.

43/2056=.0228

Blocked Calls are Zero Still

Cell Radius is reduced

**Q3:** Increase the number of users to 10000 and rerun your simulation, first with no admission control (i.e. Cd and Ci set to 57 and 0 respectively) and then with the Cd and Ci values from Q2. What happens to the blocks due to channel capacity? How do they change when the Cd and Ci values change?

* The block due to Channel capacity is reduced significantly from 3964 with no power control to 5 with power control.
* It can be inferred that the Cell Radius is reduced because of Reduced Pilot Transmit Power. The reduced cell footprint results in Less Number of Users being covered by the Cell and hence less Number of Calls.
* To summarize, the Cell is covering Less Users now, hence less channels are being requested.

No Power Control - Statistics after 2 hours are:

Number of call attempts not counting retries: 118604

Number of call attempts including retries: 217992

Number of dropped calls: 70162

Number of blocked calls due to signal strength: 39434

Number of blocked calls due to channel capacity: 3964

Number of successfully completed calls: 4957

Number of calls in progress: 49

Number of failed calls (blocks + drops): 107754

Current cell radius(km): 9.70304127613

Current Pilot EIRP is: 52.0

With Power Control - Statistics after 2 hours are:

Number of call attempts not counting retries: 118864

Number of call attempts including retries: 349149

Number of dropped calls: 1321

Number of blocked calls due to signal strength: 114485

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 2966

Number of calls in progress: 19

Number of failed calls (blocks + drops): 113882

Current cell radius(km): 2.26534964486

Current Pilot EIRP is: 30.0

# Output: 1K Users – no power control

Python 3.6.0 |Continuum Analytics, Inc.| (default, Dec 23 2016, 11:57:41) [MSC v.1900 64 bit (AMD64)] on win32

Type "copyright", "credits" or "license()" for more information.

>>>

RESTART: C:\Users\Ashish Joshi\Desktop\UMD\656\Project\File 2 - 28 Apr - Copy.py

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Statistics at 2.0 minutes are:

Number of call attempts not counting retries: 209

Number of call attempts including retries: 351

Number of dropped calls: 82

Number of blocked calls due to signal strength: 55

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 39

Number of calls in progress: 27

Number of failed calls (blocks + drops): 137

Current cell radius(km): 8.77812897661

Current Pilot EIRP is: 52.0

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Statistics at 4.0 minutes are:

Number of call attempts not counting retries: 390

Number of call attempts including retries: 688

Number of dropped calls: 151

Number of blocked calls due to signal strength: 117

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 93

Number of calls in progress: 25

Number of failed calls (blocks + drops): 268

Current cell radius(km): 8.71039449867

Current Pilot EIRP is: 52.0

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Statistics at 6.0 minutes are:

Number of call attempts not counting retries: 557

Number of call attempts including retries: 996

Number of dropped calls: 205

Number of blocked calls due to signal strength: 170

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 154

Number of calls in progress: 25

Number of failed calls (blocks + drops): 375

Current cell radius(km): 9.23755039895

Current Pilot EIRP is: 52.0

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Statistics at 8.0 minutes are:

Number of call attempts not counting retries: 773

Number of call attempts including retries: 1391

Number of dropped calls: 294

Number of blocked calls due to signal strength: 244

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 206

Number of calls in progress: 27

Number of failed calls (blocks + drops): 538

Current cell radius(km): 8.47980440306

Current Pilot EIRP is: 52.0

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Statistics at 10.0 minutes are:

Number of call attempts not counting retries: 964

Number of call attempts including retries: 1741

Number of dropped calls: 380

Number of blocked calls due to signal strength: 308

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 246

Number of calls in progress: 26

Number of failed calls (blocks + drops): 688

Current cell radius(km): 7.34685936058

Current Pilot EIRP is: 52.0

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Statistics at 12.0 minutes are:

Number of call attempts not counting retries: 1170

Number of call attempts including retries: 2119

Number of dropped calls: 467

Number of blocked calls due to signal strength: 379

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 299

Number of calls in progress: 25

Number of failed calls (blocks + drops): 846

Current cell radius(km): 9.49663489669

Current Pilot EIRP is: 52.0

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Statistics at 14.0 minutes are:

Number of call attempts not counting retries: 1357

Number of call attempts including retries: 2440

Number of dropped calls: 543

Number of blocked calls due to signal strength: 430

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 352

Number of calls in progress: 30

Number of failed calls (blocks + drops): 973

Current cell radius(km): 8.924032374

Current Pilot EIRP is: 52.0

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Statistics at 16.0 minutes are:

Number of call attempts not counting retries: 1542

Number of call attempts including retries: 2780

Number of dropped calls: 622

Number of blocked calls due to signal strength: 491

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 402

Number of calls in progress: 24

Number of failed calls (blocks + drops): 1113

Current cell radius(km): 8.10837038342

Current Pilot EIRP is: 52.0

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Statistics at 18.0 minutes are:

Number of call attempts not counting retries: 1709

Number of call attempts including retries: 3094

Number of dropped calls: 672

Number of blocked calls due to signal strength: 554

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 455

Number of calls in progress: 25

Number of failed calls (blocks + drops): 1226

Current cell radius(km): 8.71039196887

Current Pilot EIRP is: 52.0

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Statistics at 20.0 minutes are:

Number of call attempts not counting retries: 1895

Number of call attempts including retries: 3450

Number of dropped calls: 734

Number of blocked calls due to signal strength: 623

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 512

Number of calls in progress: 23

Number of failed calls (blocks + drops): 1357

Current cell radius(km): 8.56763019347

Current Pilot EIRP is: 52.0

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Statistics at 22.0 minutes are:

Number of call attempts not counting retries: 2084

Number of call attempts including retries: 3816

Number of dropped calls: 795

Number of blocked calls due to signal strength: 693

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 570

Number of calls in progress: 25

Number of failed calls (blocks + drops): 1488

Current cell radius(km): 9.87445694525

Current Pilot EIRP is: 52.0

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Statistics at 24.0 minutes are:

Number of call attempts not counting retries: 2314

Number of call attempts including retries: 4223

Number of dropped calls: 918

Number of blocked calls due to signal strength: 759

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 610

Number of calls in progress: 25

Number of failed calls (blocks + drops): 1677

Current cell radius(km): 9.79107657139

Current Pilot EIRP is: 52.0

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Statistics at 26.0 minutes are:

Number of call attempts not counting retries: 2493

Number of call attempts including retries: 4543

Number of dropped calls: 1009

Number of blocked calls due to signal strength: 809

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 647

Number of calls in progress: 28

Number of failed calls (blocks + drops): 1818

Current cell radius(km): 9.46973853074

Current Pilot EIRP is: 52.0

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Statistics at 28.0 minutes are:

Number of call attempts not counting retries: 2673

Number of call attempts including retries: 4884

Number of dropped calls: 1072

Number of blocked calls due to signal strength: 876

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 697

Number of calls in progress: 25

Number of failed calls (blocks + drops): 1948

Current cell radius(km): 7.69117650509

Current Pilot EIRP is: 52.0

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Statistics at 30.0 minutes are:

Number of call attempts not counting retries: 2851

Number of call attempts including retries: 5203

Number of dropped calls: 1136

Number of blocked calls due to signal strength: 935

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 746

Number of calls in progress: 30

Number of failed calls (blocks + drops): 2071

Current cell radius(km): 8.84394009492

Current Pilot EIRP is: 52.0

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Statistics at 32.0 minutes are:

Number of call attempts not counting retries: 3044

Number of call attempts including retries: 5560

Number of dropped calls: 1215

Number of blocked calls due to signal strength: 1003

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 799

Number of calls in progress: 25

Number of failed calls (blocks + drops): 2218

Current cell radius(km): 6.77776022449

Current Pilot EIRP is: 52.0

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Statistics at 34.0 minutes are:

Number of call attempts not counting retries: 3247

Number of call attempts including retries: 5938

Number of dropped calls: 1297

Number of blocked calls due to signal strength: 1072

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 849

Number of calls in progress: 25

Number of failed calls (blocks + drops): 2369

Current cell radius(km): 9.56169597872

Current Pilot EIRP is: 52.0

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Statistics at 36.0 minutes are:

Number of call attempts not counting retries: 3423

Number of call attempts including retries: 6267

Number of dropped calls: 1353

Number of blocked calls due to signal strength: 1137

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 905

Number of calls in progress: 25

Number of failed calls (blocks + drops): 2490

Current cell radius(km): 8.43042221026

Current Pilot EIRP is: 52.0

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Statistics at 38.0 minutes are:

Number of call attempts not counting retries: 3633

Number of call attempts including retries: 6631

Number of dropped calls: 1443

Number of blocked calls due to signal strength: 1198

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 961

Number of calls in progress: 24

Number of failed calls (blocks + drops): 2641

Current cell radius(km): 9.55769418027

Current Pilot EIRP is: 52.0

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Statistics at 40.0 minutes are:

Number of call attempts not counting retries: 3826

Number of call attempts including retries: 6985

Number of dropped calls: 1544

Number of blocked calls due to signal strength: 1258

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 999

Number of calls in progress: 23

Number of failed calls (blocks + drops): 2802

Current cell radius(km): 8.69581862598

Current Pilot EIRP is: 52.0

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Statistics at 42.0 minutes are:

Number of call attempts not counting retries: 4015

Number of call attempts including retries: 7338

Number of dropped calls: 1619

Number of blocked calls due to signal strength: 1322

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1045

Number of calls in progress: 25

Number of failed calls (blocks + drops): 2941

Current cell radius(km): 9.35440004566

Current Pilot EIRP is: 52.0

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Statistics at 44.0 minutes are:

Number of call attempts not counting retries: 4221

Number of call attempts including retries: 7690

Number of dropped calls: 1714

Number of blocked calls due to signal strength: 1382

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1091

Number of calls in progress: 29

Number of failed calls (blocks + drops): 3096

Current cell radius(km): 9.60567833726

Current Pilot EIRP is: 52.0

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Statistics at 46.0 minutes are:

Number of call attempts not counting retries: 4401

Number of call attempts including retries: 8011

Number of dropped calls: 1784

Number of blocked calls due to signal strength: 1441

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1148

Number of calls in progress: 27

Number of failed calls (blocks + drops): 3225

Current cell radius(km): 8.84215597806

Current Pilot EIRP is: 52.0

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Statistics at 48.0 minutes are:

Number of call attempts not counting retries: 4607

Number of call attempts including retries: 8392

Number of dropped calls: 1875

Number of blocked calls due to signal strength: 1508

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1198

Number of calls in progress: 25

Number of failed calls (blocks + drops): 3383

Current cell radius(km): 9.98415992685

Current Pilot EIRP is: 52.0

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Statistics at 50.0 minutes are:

Number of call attempts not counting retries: 4792

Number of call attempts including retries: 8733

Number of dropped calls: 1949

Number of blocked calls due to signal strength: 1574

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1243

Number of calls in progress: 24

Number of failed calls (blocks + drops): 3523

Current cell radius(km): 7.28672378812

Current Pilot EIRP is: 52.0

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Statistics at 52.0 minutes are:

Number of call attempts not counting retries: 4978

Number of call attempts including retries: 9043

Number of dropped calls: 2032

Number of blocked calls due to signal strength: 1626

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1296

Number of calls in progress: 23

Number of failed calls (blocks + drops): 3658

Current cell radius(km): 9.60888255952

Current Pilot EIRP is: 52.0

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Statistics at 54.0 minutes are:

Number of call attempts not counting retries: 5156

Number of call attempts including retries: 9355

Number of dropped calls: 2097

Number of blocked calls due to signal strength: 1683

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1346

Number of calls in progress: 26

Number of failed calls (blocks + drops): 3780

Current cell radius(km): 8.72021349065

Current Pilot EIRP is: 52.0

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Statistics at 56.0 minutes are:

Number of call attempts not counting retries: 5333

Number of call attempts including retries: 9663

Number of dropped calls: 2178

Number of blocked calls due to signal strength: 1734

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1396

Number of calls in progress: 24

Number of failed calls (blocks + drops): 3912

Current cell radius(km): 9.99694496435

Current Pilot EIRP is: 52.0

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Statistics at 58.0 minutes are:

Number of call attempts not counting retries: 5525

Number of call attempts including retries: 10023

Number of dropped calls: 2249

Number of blocked calls due to signal strength: 1804

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1444

Number of calls in progress: 26

Number of failed calls (blocks + drops): 4053

Current cell radius(km): 9.51642654202

Current Pilot EIRP is: 52.0

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Statistics at 60.0 minutes are:

Number of call attempts not counting retries: 5742

Number of call attempts including retries: 10435

Number of dropped calls: 2325

Number of blocked calls due to signal strength: 1883

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1505

Number of calls in progress: 24

Number of failed calls (blocks + drops): 4208

Current cell radius(km): 9.03177591402

Current Pilot EIRP is: 52.0

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Statistics at 62.0 minutes are:

Number of call attempts not counting retries: 5936

Number of call attempts including retries: 10807

Number of dropped calls: 2392

Number of blocked calls due to signal strength: 1954

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1563

Number of calls in progress: 24

Number of failed calls (blocks + drops): 4346

Current cell radius(km): 9.30982604294

Current Pilot EIRP is: 52.0

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Statistics at 64.0 minutes are:

Number of call attempts not counting retries: 6143

Number of call attempts including retries: 11200

Number of dropped calls: 2465

Number of blocked calls due to signal strength: 2031

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1615

Number of calls in progress: 30

Number of failed calls (blocks + drops): 4496

Current cell radius(km): 9.84116302453

Current Pilot EIRP is: 52.0

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Statistics at 66.0 minutes are:

Number of call attempts not counting retries: 6320

Number of call attempts including retries: 11531

Number of dropped calls: 2536

Number of blocked calls due to signal strength: 2094

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1664

Number of calls in progress: 26

Number of failed calls (blocks + drops): 4630

Current cell radius(km): 8.14624997463

Current Pilot EIRP is: 52.0

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Statistics at 68.0 minutes are:

Number of call attempts not counting retries: 6496

Number of call attempts including retries: 11844

Number of dropped calls: 2615

Number of blocked calls due to signal strength: 2145

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1705

Number of calls in progress: 26

Number of failed calls (blocks + drops): 4760

Current cell radius(km): 7.99728446783

Current Pilot EIRP is: 52.0

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Statistics at 70.0 minutes are:

Number of call attempts not counting retries: 6683

Number of call attempts including retries: 12174

Number of dropped calls: 2698

Number of blocked calls due to signal strength: 2206

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1755

Number of calls in progress: 23

Number of failed calls (blocks + drops): 4904

Current cell radius(km): 8.56099041274

Current Pilot EIRP is: 52.0

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Statistics at 72.0 minutes are:

Number of call attempts not counting retries: 6857

Number of call attempts including retries: 12479

Number of dropped calls: 2776

Number of blocked calls due to signal strength: 2260

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1793

Number of calls in progress: 26

Number of failed calls (blocks + drops): 5036

Current cell radius(km): 8.07644529953

Current Pilot EIRP is: 52.0

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Statistics at 74.0 minutes are:

Number of call attempts not counting retries: 7067

Number of call attempts including retries: 12862

Number of dropped calls: 2879

Number of blocked calls due to signal strength: 2329

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1827

Number of calls in progress: 28

Number of failed calls (blocks + drops): 5208

Current cell radius(km): 9.82138786861

Current Pilot EIRP is: 52.0

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Statistics at 76.0 minutes are:

Number of call attempts not counting retries: 7232

Number of call attempts including retries: 13155

Number of dropped calls: 2950

Number of blocked calls due to signal strength: 2382

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1871

Number of calls in progress: 26

Number of failed calls (blocks + drops): 5332

Current cell radius(km): 8.20221038205

Current Pilot EIRP is: 52.0

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Statistics at 78.0 minutes are:

Number of call attempts not counting retries: 7446

Number of call attempts including retries: 13534

Number of dropped calls: 3054

Number of blocked calls due to signal strength: 2452

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1912

Number of calls in progress: 25

Number of failed calls (blocks + drops): 5506

Current cell radius(km): 9.96506862042

Current Pilot EIRP is: 52.0

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Statistics at 80.0 minutes are:

Number of call attempts not counting retries: 7643

Number of call attempts including retries: 13892

Number of dropped calls: 3133

Number of blocked calls due to signal strength: 2517

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1963

Number of calls in progress: 29

Number of failed calls (blocks + drops): 5650

Current cell radius(km): 9.06993733128

Current Pilot EIRP is: 52.0

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Statistics at 82.0 minutes are:

Number of call attempts not counting retries: 7840

Number of call attempts including retries: 14253

Number of dropped calls: 3208

Number of blocked calls due to signal strength: 2585

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2020

Number of calls in progress: 25

Number of failed calls (blocks + drops): 5793

Current cell radius(km): 9.40633848439

Current Pilot EIRP is: 52.0

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Statistics at 84.0 minutes are:

Number of call attempts not counting retries: 8052

Number of call attempts including retries: 14629

Number of dropped calls: 3304

Number of blocked calls due to signal strength: 2651

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2069

Number of calls in progress: 28

Number of failed calls (blocks + drops): 5955

Current cell radius(km): 9.15434661487

Current Pilot EIRP is: 52.0

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Statistics at 86.0 minutes are:

Number of call attempts not counting retries: 8237

Number of call attempts including retries: 14983

Number of dropped calls: 3363

Number of blocked calls due to signal strength: 2718

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2130

Number of calls in progress: 24

Number of failed calls (blocks + drops): 6081

Current cell radius(km): 9.57076380056

Current Pilot EIRP is: 52.0

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Statistics at 88.0 minutes are:

Number of call attempts not counting retries: 8441

Number of call attempts including retries: 15366

Number of dropped calls: 3447

Number of blocked calls due to signal strength: 2788

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2180

Number of calls in progress: 25

Number of failed calls (blocks + drops): 6235

Current cell radius(km): 9.64520792808

Current Pilot EIRP is: 52.0

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Statistics at 90.0 minutes are:

Number of call attempts not counting retries: 8648

Number of call attempts including retries: 15741

Number of dropped calls: 3522

Number of blocked calls due to signal strength: 2856

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2244

Number of calls in progress: 25

Number of failed calls (blocks + drops): 6378

Current cell radius(km): 8.81875890252

Current Pilot EIRP is: 52.0

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Statistics at 92.0 minutes are:

Number of call attempts not counting retries: 8837

Number of call attempts including retries: 16094

Number of dropped calls: 3588

Number of blocked calls due to signal strength: 2923

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2297

Number of calls in progress: 27

Number of failed calls (blocks + drops): 6511

Current cell radius(km): 9.12267371015

Current Pilot EIRP is: 52.0

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Statistics at 94.0 minutes are:

Number of call attempts not counting retries: 9002

Number of call attempts including retries: 16393

Number of dropped calls: 3651

Number of blocked calls due to signal strength: 2975

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2346

Number of calls in progress: 27

Number of failed calls (blocks + drops): 6626

Current cell radius(km): 8.56261321575

Current Pilot EIRP is: 52.0

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Statistics at 96.0 minutes are:

Number of call attempts not counting retries: 9201

Number of call attempts including retries: 16767

Number of dropped calls: 3726

Number of blocked calls due to signal strength: 3050

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2392

Number of calls in progress: 30

Number of failed calls (blocks + drops): 6776

Current cell radius(km): 8.62112732405

Current Pilot EIRP is: 52.0

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Statistics at 98.0 minutes are:

Number of call attempts not counting retries: 9409

Number of call attempts including retries: 17147

Number of dropped calls: 3820

Number of blocked calls due to signal strength: 3121

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2446

Number of calls in progress: 21

Number of failed calls (blocks + drops): 6941

Current cell radius(km): 9.4451678187

Current Pilot EIRP is: 52.0

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Statistics at 100.0 minutes are:

Number of call attempts not counting retries: 9610

Number of call attempts including retries: 17523

Number of dropped calls: 3885

Number of blocked calls due to signal strength: 3193

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2505

Number of calls in progress: 27

Number of failed calls (blocks + drops): 7078

Current cell radius(km): 9.03841287776

Current Pilot EIRP is: 52.0

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Statistics at 102.0 minutes are:

Number of call attempts not counting retries: 9825

Number of call attempts including retries: 17926

Number of dropped calls: 3969

Number of blocked calls due to signal strength: 3273

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2553

Number of calls in progress: 27

Number of failed calls (blocks + drops): 7242

Current cell radius(km): 9.54115940875

Current Pilot EIRP is: 52.0

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Statistics at 104.0 minutes are:

Number of call attempts not counting retries: 10042

Number of call attempts including retries: 18330

Number of dropped calls: 4069

Number of blocked calls due to signal strength: 3347

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2598

Number of calls in progress: 24

Number of failed calls (blocks + drops): 7416

Current cell radius(km): 9.86758051187

Current Pilot EIRP is: 52.0

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Statistics at 106.0 minutes are:

Number of call attempts not counting retries: 10225

Number of call attempts including retries: 18681

Number of dropped calls: 4135

Number of blocked calls due to signal strength: 3417

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2642

Number of calls in progress: 23

Number of failed calls (blocks + drops): 7552

Current cell radius(km): 7.65768681157

Current Pilot EIRP is: 52.0

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Statistics at 108.0 minutes are:

Number of call attempts not counting retries: 10408

Number of call attempts including retries: 19010

Number of dropped calls: 4212

Number of blocked calls due to signal strength: 3474

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2694

Number of calls in progress: 25

Number of failed calls (blocks + drops): 7686

Current cell radius(km): 7.31563935819

Current Pilot EIRP is: 52.0

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Statistics at 110.0 minutes are:

Number of call attempts not counting retries: 10605

Number of call attempts including retries: 19397

Number of dropped calls: 4293

Number of blocked calls due to signal strength: 3546

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2736

Number of calls in progress: 28

Number of failed calls (blocks + drops): 7839

Current cell radius(km): 8.38806166475

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 112.0 minutes are:

Number of call attempts not counting retries: 10818

Number of call attempts including retries: 19794

Number of dropped calls: 4397

Number of blocked calls due to signal strength: 3611

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2784

Number of calls in progress: 23

Number of failed calls (blocks + drops): 8008

Current cell radius(km): 9.81642381978

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 114.0 minutes are:

Number of call attempts not counting retries: 11000

Number of call attempts including retries: 20149

Number of dropped calls: 4461

Number of blocked calls due to signal strength: 3684

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2824

Number of calls in progress: 28

Number of failed calls (blocks + drops): 8145

Current cell radius(km): 8.62892597723

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 116.0 minutes are:

Number of call attempts not counting retries: 11212

Number of call attempts including retries: 20546

Number of dropped calls: 4558

Number of blocked calls due to signal strength: 3754

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2869

Number of calls in progress: 24

Number of failed calls (blocks + drops): 8312

Current cell radius(km): 8.55658383191

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 118.0 minutes are:

Number of call attempts not counting retries: 11414

Number of call attempts including retries: 20921

Number of dropped calls: 4645

Number of blocked calls due to signal strength: 3822

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2918

Number of calls in progress: 25

Number of failed calls (blocks + drops): 8467

Current cell radius(km): 8.10018060862

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics after 2 hours are:

Number of call attempts not counting retries: 11610

Number of call attempts including retries: 21263

Number of dropped calls: 4721

Number of blocked calls due to signal strength: 3881

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2979

Number of calls in progress: 24

Number of failed calls (blocks + drops): 8467

Current cell radius(km): 8.85268106109

Current Pilot EIRP is: 52.0

>>>

# Output: 1K Users – power control

Python 3.6.0 |Continuum Analytics, Inc.| (default, Dec 23 2016, 11:57:41) [MSC v.1900 64 bit (AMD64)] on win32

Type "copyright", "credits" or "license()" for more information.

>>>

RESTART: C:\Users\Ashish Joshi\Desktop\UMD\656\Project\File 2 - 28 Apr - Copy.py

---------------------------------------------------

Statistics at 2.0 minutes are:

Number of call attempts not counting retries: 194

Number of call attempts including retries: 507

Number of dropped calls: 4

Number of blocked calls due to signal strength: 144

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 31

Number of calls in progress: 12

Number of failed calls (blocks + drops): 148

Current cell radius(km): 8.09666729525

Current Pilot EIRP is: 44.5

---------------------------------------------------

Statistics at 4.0 minutes are:

Number of call attempts not counting retries: 375

Number of call attempts including retries: 977

Number of dropped calls: 6

Number of blocked calls due to signal strength: 283

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 61

Number of calls in progress: 18

Number of failed calls (blocks + drops): 289

Current cell radius(km): 6.09777597585

Current Pilot EIRP is: 37.0

---------------------------------------------------

Statistics at 6.0 minutes are:

Number of call attempts not counting retries: 591

Number of call attempts including retries: 1559

Number of dropped calls: 6

Number of blocked calls due to signal strength: 460

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 94

Number of calls in progress: 21

Number of failed calls (blocks + drops): 466

Current cell radius(km): 5.49617522941

Current Pilot EIRP is: 41.5

---------------------------------------------------

Statistics at 8.0 minutes are:

Number of call attempts not counting retries: 774

Number of call attempts including retries: 2061

Number of dropped calls: 6

Number of blocked calls due to signal strength: 620

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 126

Number of calls in progress: 17

Number of failed calls (blocks + drops): 626

Current cell radius(km): 5.83726352562

Current Pilot EIRP is: 41.0

---------------------------------------------------

Statistics at 10.0 minutes are:

Number of call attempts not counting retries: 970

Number of call attempts including retries: 2599

Number of dropped calls: 6

Number of blocked calls due to signal strength: 784

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 160

Number of calls in progress: 12

Number of failed calls (blocks + drops): 790

Current cell radius(km): 4.75425579557

Current Pilot EIRP is: 46.0

---------------------------------------------------

Statistics at 12.0 minutes are:

Number of call attempts not counting retries: 1173

Number of call attempts including retries: 3137

Number of dropped calls: 6

Number of blocked calls due to signal strength: 948

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 193

Number of calls in progress: 21

Number of failed calls (blocks + drops): 954

Current cell radius(km): 7.41305444752

Current Pilot EIRP is: 46.0

---------------------------------------------------

Statistics at 14.0 minutes are:

Number of call attempts not counting retries: 1365

Number of call attempts including retries: 3640

Number of dropped calls: 6

Number of blocked calls due to signal strength: 1099

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 242

Number of calls in progress: 14

Number of failed calls (blocks + drops): 1105

Current cell radius(km): 6.03797491896

Current Pilot EIRP is: 42.5

---------------------------------------------------

Statistics at 16.0 minutes are:

Number of call attempts not counting retries: 1552

Number of call attempts including retries: 4155

Number of dropped calls: 6

Number of blocked calls due to signal strength: 1255

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 272

Number of calls in progress: 12

Number of failed calls (blocks + drops): 1261

Current cell radius(km): 5.03541610738

Current Pilot EIRP is: 38.5

---------------------------------------------------

Statistics at 18.0 minutes are:

Number of call attempts not counting retries: 1749

Number of call attempts including retries: 4681

Number of dropped calls: 6

Number of blocked calls due to signal strength: 1415

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 307

Number of calls in progress: 13

Number of failed calls (blocks + drops): 1421

Current cell radius(km): 8.42687160582

Current Pilot EIRP is: 48.0

---------------------------------------------------

Statistics at 20.0 minutes are:

Number of call attempts not counting retries: 1952

Number of call attempts including retries: 5230

Number of dropped calls: 7

Number of blocked calls due to signal strength: 1582

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 344

Number of calls in progress: 14

Number of failed calls (blocks + drops): 1589

Current cell radius(km): 6.53993956884

Current Pilot EIRP is: 42.0

---------------------------------------------------

Statistics at 22.0 minutes are:

Number of call attempts not counting retries: 2155

Number of call attempts including retries: 5759

Number of dropped calls: 7

Number of blocked calls due to signal strength: 1742

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 388

Number of calls in progress: 16

Number of failed calls (blocks + drops): 1749

Current cell radius(km): 5.5058215238

Current Pilot EIRP is: 45.0

---------------------------------------------------

Statistics at 24.0 minutes are:

Number of call attempts not counting retries: 2348

Number of call attempts including retries: 6284

Number of dropped calls: 7

Number of blocked calls due to signal strength: 1905

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 418

Number of calls in progress: 11

Number of failed calls (blocks + drops): 1912

Current cell radius(km): 7.92093484928

Current Pilot EIRP is: 43.0

---------------------------------------------------

Statistics at 26.0 minutes are:

Number of call attempts not counting retries: 2563

Number of call attempts including retries: 6841

Number of dropped calls: 18

Number of blocked calls due to signal strength: 2065

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 462

Number of calls in progress: 12

Number of failed calls (blocks + drops): 2083

Current cell radius(km): 8.12835146897

Current Pilot EIRP is: 40.5

---------------------------------------------------

Statistics at 28.0 minutes are:

Number of call attempts not counting retries: 2761

Number of call attempts including retries: 7376

Number of dropped calls: 18

Number of blocked calls due to signal strength: 2230

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 500

Number of calls in progress: 10

Number of failed calls (blocks + drops): 2248

Current cell radius(km): 6.20208966778

Current Pilot EIRP is: 40.0

---------------------------------------------------

Statistics at 30.0 minutes are:

Number of call attempts not counting retries: 2932

Number of call attempts including retries: 7815

Number of dropped calls: 18

Number of blocked calls due to signal strength: 2357

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 536

Number of calls in progress: 16

Number of failed calls (blocks + drops): 2375

Current cell radius(km): 4.83271265724

Current Pilot EIRP is: 41.0

---------------------------------------------------

Statistics at 32.0 minutes are:

Number of call attempts not counting retries: 3144

Number of call attempts including retries: 8376

Number of dropped calls: 18

Number of blocked calls due to signal strength: 2526

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 579

Number of calls in progress: 19

Number of failed calls (blocks + drops): 2544

Current cell radius(km): 7.94457572238

Current Pilot EIRP is: 30.5

---------------------------------------------------

Statistics at 34.0 minutes are:

Number of call attempts not counting retries: 3333

Number of call attempts including retries: 8888

Number of dropped calls: 19

Number of blocked calls due to signal strength: 2685

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 612

Number of calls in progress: 14

Number of failed calls (blocks + drops): 2704

Current cell radius(km): 7.94457572238

Current Pilot EIRP is: 39.0

---------------------------------------------------

Statistics at 36.0 minutes are:

Number of call attempts not counting retries: 3538

Number of call attempts including retries: 9429

Number of dropped calls: 20

Number of blocked calls due to signal strength: 2842

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 647

Number of calls in progress: 18

Number of failed calls (blocks + drops): 2862

Current cell radius(km): 6.40668688739

Current Pilot EIRP is: 31.5

---------------------------------------------------

Statistics at 38.0 minutes are:

Number of call attempts not counting retries: 3754

Number of call attempts including retries: 10036

Number of dropped calls: 23

Number of blocked calls due to signal strength: 3036

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 679

Number of calls in progress: 12

Number of failed calls (blocks + drops): 3059

Current cell radius(km): 5.20524053273

Current Pilot EIRP is: 43.5

---------------------------------------------------

Statistics at 40.0 minutes are:

Number of call attempts not counting retries: 3971

Number of call attempts including retries: 10606

Number of dropped calls: 25

Number of blocked calls due to signal strength: 3208

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 716

Number of calls in progress: 17

Number of failed calls (blocks + drops): 3233

Current cell radius(km): 8.92028426416

Current Pilot EIRP is: 36.0

---------------------------------------------------

Statistics at 42.0 minutes are:

Number of call attempts not counting retries: 4171

Number of call attempts including retries: 11157

Number of dropped calls: 33

Number of blocked calls due to signal strength: 3374

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 736

Number of calls in progress: 20

Number of failed calls (blocks + drops): 3407

Current cell radius(km): 5.1332823813

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 44.0 minutes are:

Number of call attempts not counting retries: 4367

Number of call attempts including retries: 11696

Number of dropped calls: 33

Number of blocked calls due to signal strength: 3540

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 764

Number of calls in progress: 19

Number of failed calls (blocks + drops): 3573

Current cell radius(km): 7.68430353709

Current Pilot EIRP is: 30.5

---------------------------------------------------

Statistics at 46.0 minutes are:

Number of call attempts not counting retries: 4553

Number of call attempts including retries: 12204

Number of dropped calls: 33

Number of blocked calls due to signal strength: 3703

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 801

Number of calls in progress: 14

Number of failed calls (blocks + drops): 3736

Current cell radius(km): 7.44861376272

Current Pilot EIRP is: 41.0

---------------------------------------------------

Statistics at 48.0 minutes are:

Number of call attempts not counting retries: 4742

Number of call attempts including retries: 12677

Number of dropped calls: 34

Number of blocked calls due to signal strength: 3836

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 846

Number of calls in progress: 19

Number of failed calls (blocks + drops): 3870

Current cell radius(km): 7.0241219303

Current Pilot EIRP is: 47.5

---------------------------------------------------

Statistics at 50.0 minutes are:

Number of call attempts not counting retries: 4936

Number of call attempts including retries: 13203

Number of dropped calls: 34

Number of blocked calls due to signal strength: 3994

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 884

Number of calls in progress: 14

Number of failed calls (blocks + drops): 4028

Current cell radius(km): 4.51949872701

Current Pilot EIRP is: 34.5

---------------------------------------------------

Statistics at 52.0 minutes are:

Number of call attempts not counting retries: 5113

Number of call attempts including retries: 13691

Number of dropped calls: 34

Number of blocked calls due to signal strength: 4150

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 905

Number of calls in progress: 20

Number of failed calls (blocks + drops): 4184

Current cell radius(km): 7.62287897816

Current Pilot EIRP is: 35.0

---------------------------------------------------

Statistics at 54.0 minutes are:

Number of call attempts not counting retries: 5301

Number of call attempts including retries: 14187

Number of dropped calls: 34

Number of blocked calls due to signal strength: 4299

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 943

Number of calls in progress: 19

Number of failed calls (blocks + drops): 4333

Current cell radius(km): 8.74390498597

Current Pilot EIRP is: 42.0

---------------------------------------------------

Statistics at 56.0 minutes are:

Number of call attempts not counting retries: 5469

Number of call attempts including retries: 14638

Number of dropped calls: 36

Number of blocked calls due to signal strength: 4432

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 977

Number of calls in progress: 16

Number of failed calls (blocks + drops): 4468

Current cell radius(km): 8.74390498597

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 58.0 minutes are:

Number of call attempts not counting retries: 5670

Number of call attempts including retries: 15186

Number of dropped calls: 36

Number of blocked calls due to signal strength: 4601

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1013

Number of calls in progress: 15

Number of failed calls (blocks + drops): 4637

Current cell radius(km): 5.31646484925

Current Pilot EIRP is: 34.0

---------------------------------------------------

Statistics at 60.0 minutes are:

Number of call attempts not counting retries: 5878

Number of call attempts including retries: 15758

Number of dropped calls: 36

Number of blocked calls due to signal strength: 4777

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1041

Number of calls in progress: 18

Number of failed calls (blocks + drops): 4813

Current cell radius(km): 5.31646484925

Current Pilot EIRP is: 42.0

---------------------------------------------------

Statistics at 62.0 minutes are:

Number of call attempts not counting retries: 6061

Number of call attempts including retries: 16232

Number of dropped calls: 36

Number of blocked calls due to signal strength: 4920

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1081

Number of calls in progress: 16

Number of failed calls (blocks + drops): 4956

Current cell radius(km): 6.07536012246

Current Pilot EIRP is: 40.0

---------------------------------------------------

Statistics at 64.0 minutes are:

Number of call attempts not counting retries: 6268

Number of call attempts including retries: 16788

Number of dropped calls: 36

Number of blocked calls due to signal strength: 5091

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1122

Number of calls in progress: 15

Number of failed calls (blocks + drops): 5127

Current cell radius(km): 7.0832489475

Current Pilot EIRP is: 35.5

---------------------------------------------------

Statistics at 66.0 minutes are:

Number of call attempts not counting retries: 6446

Number of call attempts including retries: 17252

Number of dropped calls: 36

Number of blocked calls due to signal strength: 5229

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1156

Number of calls in progress: 21

Number of failed calls (blocks + drops): 5265

Current cell radius(km): 7.40219664119

Current Pilot EIRP is: 42.0

---------------------------------------------------

Statistics at 68.0 minutes are:

Number of call attempts not counting retries: 6632

Number of call attempts including retries: 17753

Number of dropped calls: 36

Number of blocked calls due to signal strength: 5380

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1188

Number of calls in progress: 21

Number of failed calls (blocks + drops): 5416

Current cell radius(km): 5.66879514122

Current Pilot EIRP is: 41.5

---------------------------------------------------

Statistics at 70.0 minutes are:

Number of call attempts not counting retries: 6816

Number of call attempts including retries: 18247

Number of dropped calls: 36

Number of blocked calls due to signal strength: 5533

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1222

Number of calls in progress: 19

Number of failed calls (blocks + drops): 5569

Current cell radius(km): 6.097534847

Current Pilot EIRP is: 44.5

---------------------------------------------------

Statistics at 72.0 minutes are:

Number of call attempts not counting retries: 7010

Number of call attempts including retries: 18790

Number of dropped calls: 36

Number of blocked calls due to signal strength: 5703

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1249

Number of calls in progress: 16

Number of failed calls (blocks + drops): 5739

Current cell radius(km): 7.3211734073

Current Pilot EIRP is: 46.5

---------------------------------------------------

Statistics at 74.0 minutes are:

Number of call attempts not counting retries: 7189

Number of call attempts including retries: 19284

Number of dropped calls: 36

Number of blocked calls due to signal strength: 5861

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1276

Number of calls in progress: 14

Number of failed calls (blocks + drops): 5897

Current cell radius(km): 5.40115614353

Current Pilot EIRP is: 47.5

---------------------------------------------------

Statistics at 76.0 minutes are:

Number of call attempts not counting retries: 7377

Number of call attempts including retries: 19790

Number of dropped calls: 36

Number of blocked calls due to signal strength: 6010

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1309

Number of calls in progress: 20

Number of failed calls (blocks + drops): 6046

Current cell radius(km): 6.30261177249

Current Pilot EIRP is: 44.0

---------------------------------------------------

Statistics at 78.0 minutes are:

Number of call attempts not counting retries: 7542

Number of call attempts including retries: 20208

Number of dropped calls: 36

Number of blocked calls due to signal strength: 6133

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1348

Number of calls in progress: 22

Number of failed calls (blocks + drops): 6169

Current cell radius(km): 6.09626060232

Current Pilot EIRP is: 39.0

---------------------------------------------------

Statistics at 80.0 minutes are:

Number of call attempts not counting retries: 7728

Number of call attempts including retries: 20709

Number of dropped calls: 37

Number of blocked calls due to signal strength: 6283

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1384

Number of calls in progress: 18

Number of failed calls (blocks + drops): 6320

Current cell radius(km): 9.42598002492

Current Pilot EIRP is: 43.0

---------------------------------------------------

Statistics at 82.0 minutes are:

Number of call attempts not counting retries: 7940

Number of call attempts including retries: 21258

Number of dropped calls: 37

Number of blocked calls due to signal strength: 6443

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1426

Number of calls in progress: 25

Number of failed calls (blocks + drops): 6480

Current cell radius(km): 7.90725620806

Current Pilot EIRP is: 43.5

---------------------------------------------------

Statistics at 84.0 minutes are:

Number of call attempts not counting retries: 8123

Number of call attempts including retries: 21759

Number of dropped calls: 37

Number of blocked calls due to signal strength: 6599

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1461

Number of calls in progress: 20

Number of failed calls (blocks + drops): 6636

Current cell radius(km): 8.11354408367

Current Pilot EIRP is: 37.5

---------------------------------------------------

Statistics at 86.0 minutes are:

Number of call attempts not counting retries: 8333

Number of call attempts including retries: 22359

Number of dropped calls: 37

Number of blocked calls due to signal strength: 6792

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1483

Number of calls in progress: 14

Number of failed calls (blocks + drops): 6829

Current cell radius(km): 4.31229385749

Current Pilot EIRP is: 32.5

---------------------------------------------------

Statistics at 88.0 minutes are:

Number of call attempts not counting retries: 8547

Number of call attempts including retries: 22948

Number of dropped calls: 37

Number of blocked calls due to signal strength: 6972

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1515

Number of calls in progress: 16

Number of failed calls (blocks + drops): 7009

Current cell radius(km): 5.82498791068

Current Pilot EIRP is: 39.5

---------------------------------------------------

Statistics at 90.0 minutes are:

Number of call attempts not counting retries: 8734

Number of call attempts including retries: 23460

Number of dropped calls: 37

Number of blocked calls due to signal strength: 7130

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1543

Number of calls in progress: 17

Number of failed calls (blocks + drops): 7167

Current cell radius(km): 4.78503679815

Current Pilot EIRP is: 32.0

---------------------------------------------------

Statistics at 92.0 minutes are:

Number of call attempts not counting retries: 8930

Number of call attempts including retries: 23975

Number of dropped calls: 37

Number of blocked calls due to signal strength: 7287

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1581

Number of calls in progress: 21

Number of failed calls (blocks + drops): 7324

Current cell radius(km): 8.32800295863

Current Pilot EIRP is: 40.0

---------------------------------------------------

Statistics at 94.0 minutes are:

Number of call attempts not counting retries: 9142

Number of call attempts including retries: 24551

Number of dropped calls: 37

Number of blocked calls due to signal strength: 7463

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1611

Number of calls in progress: 20

Number of failed calls (blocks + drops): 7500

Current cell radius(km): 5.25800572886

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 96.0 minutes are:

Number of call attempts not counting retries: 9356

Number of call attempts including retries: 25113

Number of dropped calls: 37

Number of blocked calls due to signal strength: 7628

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1657

Number of calls in progress: 22

Number of failed calls (blocks + drops): 7665

Current cell radius(km): 9.0690777463

Current Pilot EIRP is: 41.0

---------------------------------------------------

Statistics at 98.0 minutes are:

Number of call attempts not counting retries: 9571

Number of call attempts including retries: 25696

Number of dropped calls: 37

Number of blocked calls due to signal strength: 7812

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1693

Number of calls in progress: 20

Number of failed calls (blocks + drops): 7849

Current cell radius(km): 8.7541012672

Current Pilot EIRP is: 44.5

---------------------------------------------------

Statistics at 100.0 minutes are:

Number of call attempts not counting retries: 9768

Number of call attempts including retries: 26218

Number of dropped calls: 37

Number of blocked calls due to signal strength: 7969

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1732

Number of calls in progress: 23

Number of failed calls (blocks + drops): 8006

Current cell radius(km): 8.69882940699

Current Pilot EIRP is: 45.0

---------------------------------------------------

Statistics at 102.0 minutes are:

Number of call attempts not counting retries: 9962

Number of call attempts including retries: 26732

Number of dropped calls: 39

Number of blocked calls due to signal strength: 8123

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1775

Number of calls in progress: 17

Number of failed calls (blocks + drops): 8162

Current cell radius(km): 5.79044325376

Current Pilot EIRP is: 38.5

---------------------------------------------------

Statistics at 104.0 minutes are:

Number of call attempts not counting retries: 10174

Number of call attempts including retries: 27298

Number of dropped calls: 39

Number of blocked calls due to signal strength: 8296

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1811

Number of calls in progress: 23

Number of failed calls (blocks + drops): 8335

Current cell radius(km): 7.11911531436

Current Pilot EIRP is: 34.0

---------------------------------------------------

Statistics at 106.0 minutes are:

Number of call attempts not counting retries: 10387

Number of call attempts including retries: 27894

Number of dropped calls: 39

Number of blocked calls due to signal strength: 8480

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1837

Number of calls in progress: 24

Number of failed calls (blocks + drops): 8519

Current cell radius(km): 7.22790649273

Current Pilot EIRP is: 34.5

---------------------------------------------------

Statistics at 108.0 minutes are:

Number of call attempts not counting retries: 10567

Number of call attempts including retries: 28404

Number of dropped calls: 39

Number of blocked calls due to signal strength: 8643

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1862

Number of calls in progress: 17

Number of failed calls (blocks + drops): 8682

Current cell radius(km): 7.02072405303

Current Pilot EIRP is: 44.0

---------------------------------------------------

Statistics at 110.0 minutes are:

Number of call attempts not counting retries: 10782

Number of call attempts including retries: 28999

Number of dropped calls: 39

Number of blocked calls due to signal strength: 8824

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1893

Number of calls in progress: 22

Number of failed calls (blocks + drops): 8863

Current cell radius(km): 6.05732778149

Current Pilot EIRP is: 41.0

---------------------------------------------------

Statistics at 112.0 minutes are:

Number of call attempts not counting retries: 10989

Number of call attempts including retries: 29587

Number of dropped calls: 39

Number of blocked calls due to signal strength: 9010

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1920

Number of calls in progress: 16

Number of failed calls (blocks + drops): 9049

Current cell radius(km): 4.66407949648

Current Pilot EIRP is: 45.0

---------------------------------------------------

Statistics at 114.0 minutes are:

Number of call attempts not counting retries: 11170

Number of call attempts including retries: 30079

Number of dropped calls: 39

Number of blocked calls due to signal strength: 9160

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1946

Number of calls in progress: 21

Number of failed calls (blocks + drops): 9199

Current cell radius(km): 6.37557734057

Current Pilot EIRP is: 36.5

---------------------------------------------------

Statistics at 116.0 minutes are:

Number of call attempts not counting retries: 11381

Number of call attempts including retries: 30638

Number of dropped calls: 41

Number of blocked calls due to signal strength: 9328

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 1988

Number of calls in progress: 15

Number of failed calls (blocks + drops): 9369

Current cell radius(km): 4.28520087664

Current Pilot EIRP is: 33.5

---------------------------------------------------

Statistics at 118.0 minutes are:

Number of call attempts not counting retries: 11580

Number of call attempts including retries: 31167

Number of dropped calls: 41

Number of blocked calls due to signal strength: 9485

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2026

Number of calls in progress: 19

Number of failed calls (blocks + drops): 9526

Current cell radius(km): 8.14162015829

Current Pilot EIRP is: 32.5

---------------------------------------------------

Statistics after 2 hours are:

Number of call attempts not counting retries: 11757

Number of call attempts including retries: 31647

Number of dropped calls: 43

Number of blocked calls due to signal strength: 9633

Number of blocked calls due to channel capacity: 0

Number of successfully completed calls: 2056

Number of calls in progress: 17

Number of failed calls (blocks + drops): 9526

Current cell radius(km): 8.04528276921

Current Pilot EIRP is: 30.0

>>>

# Output: 10K Users – no power control

Python 3.6.0 |Continuum Analytics, Inc.| (default, Dec 23 2016, 11:57:41) [MSC v.1900 64 bit (AMD64)] on win32

Type "copyright", "credits" or "license()" for more information.

>>>

== RESTART: C:/Users/Ashish Joshi/Desktop/UMD/656/Project/Final Version.py ==

---------------------------------------------------

Statistics at 2.0 minutes are:

Number of call attempts not counting retries: 1952

Number of call attempts including retries: 3592

Number of dropped calls: 1109

Number of blocked calls due to signal strength: 646

Number of blocked calls due to channel capacity: 52

Number of successfully completed calls: 67

Number of calls in progress: 49

Number of failed calls (blocks + drops): 1755

Current cell radius(km): 9.18952714255

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 4.0 minutes are:

Number of call attempts not counting retries: 3930

Number of call attempts including retries: 7209

Number of dropped calls: 2259

Number of blocked calls due to signal strength: 1307

Number of blocked calls due to channel capacity: 113

Number of successfully completed calls: 164

Number of calls in progress: 55

Number of failed calls (blocks + drops): 3566

Current cell radius(km): 9.89326736613

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 6.0 minutes are:

Number of call attempts not counting retries: 5923

Number of call attempts including retries: 10932

Number of dropped calls: 3407

Number of blocked calls due to signal strength: 1999

Number of blocked calls due to channel capacity: 176

Number of successfully completed calls: 249

Number of calls in progress: 56

Number of failed calls (blocks + drops): 5406

Current cell radius(km): 9.95248324743

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 8.0 minutes are:

Number of call attempts not counting retries: 7905

Number of call attempts including retries: 14571

Number of dropped calls: 4593

Number of blocked calls due to signal strength: 2653

Number of blocked calls due to channel capacity: 238

Number of successfully completed calls: 341

Number of calls in progress: 47

Number of failed calls (blocks + drops): 7246

Current cell radius(km): 9.9816706773

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 10.0 minutes are:

Number of call attempts not counting retries: 9826

Number of call attempts including retries: 18084

Number of dropped calls: 5752

Number of blocked calls due to signal strength: 3292

Number of blocked calls due to channel capacity: 299

Number of successfully completed calls: 418

Number of calls in progress: 44

Number of failed calls (blocks + drops): 9044

Current cell radius(km): 9.86866859898

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 12.0 minutes are:

Number of call attempts not counting retries: 11816

Number of call attempts including retries: 21775

Number of dropped calls: 6922

Number of blocked calls due to signal strength: 3942

Number of blocked calls due to channel capacity: 364

Number of successfully completed calls: 507

Number of calls in progress: 55

Number of failed calls (blocks + drops): 10864

Current cell radius(km): 9.07445319734

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 14.0 minutes are:

Number of call attempts not counting retries: 13825

Number of call attempts including retries: 25405

Number of dropped calls: 8092

Number of blocked calls due to signal strength: 4591

Number of blocked calls due to channel capacity: 476

Number of successfully completed calls: 579

Number of calls in progress: 48

Number of failed calls (blocks + drops): 12683

Current cell radius(km): 9.88505453202

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 16.0 minutes are:

Number of call attempts not counting retries: 15864

Number of call attempts including retries: 29086

Number of dropped calls: 9288

Number of blocked calls due to signal strength: 5250

Number of blocked calls due to channel capacity: 570

Number of successfully completed calls: 666

Number of calls in progress: 51

Number of failed calls (blocks + drops): 14538

Current cell radius(km): 9.71782981001

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 18.0 minutes are:

Number of call attempts not counting retries: 17843

Number of call attempts including retries: 32746

Number of dropped calls: 10460

Number of blocked calls due to signal strength: 5906

Number of blocked calls due to channel capacity: 640

Number of successfully completed calls: 750

Number of calls in progress: 50

Number of failed calls (blocks + drops): 16366

Current cell radius(km): 9.12582486076

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 20.0 minutes are:

Number of call attempts not counting retries: 19799

Number of call attempts including retries: 36329

Number of dropped calls: 11626

Number of blocked calls due to signal strength: 6555

Number of blocked calls due to channel capacity: 693

Number of successfully completed calls: 841

Number of calls in progress: 50

Number of failed calls (blocks + drops): 18181

Current cell radius(km): 9.46687982105

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 22.0 minutes are:

Number of call attempts not counting retries: 21751

Number of call attempts including retries: 39946

Number of dropped calls: 12800

Number of blocked calls due to signal strength: 7206

Number of blocked calls due to channel capacity: 758

Number of successfully completed calls: 920

Number of calls in progress: 35

Number of failed calls (blocks + drops): 20006

Current cell radius(km): 9.94812736708

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 24.0 minutes are:

Number of call attempts not counting retries: 23734

Number of call attempts including retries: 43633

Number of dropped calls: 13953

Number of blocked calls due to signal strength: 7895

Number of blocked calls due to channel capacity: 810

Number of successfully completed calls: 1004

Number of calls in progress: 45

Number of failed calls (blocks + drops): 21848

Current cell radius(km): 7.86251298922

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 26.0 minutes are:

Number of call attempts not counting retries: 25796

Number of call attempts including retries: 47310

Number of dropped calls: 15170

Number of blocked calls due to signal strength: 8507

Number of blocked calls due to channel capacity: 940

Number of successfully completed calls: 1101

Number of calls in progress: 55

Number of failed calls (blocks + drops): 23677

Current cell radius(km): 8.9220884095

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 28.0 minutes are:

Number of call attempts not counting retries: 27724

Number of call attempts including retries: 50797

Number of dropped calls: 16303

Number of blocked calls due to signal strength: 9130

Number of blocked calls due to channel capacity: 1010

Number of successfully completed calls: 1195

Number of calls in progress: 54

Number of failed calls (blocks + drops): 25433

Current cell radius(km): 9.7818919182

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 30.0 minutes are:

Number of call attempts not counting retries: 29742

Number of call attempts including retries: 54484

Number of dropped calls: 17509

Number of blocked calls due to signal strength: 9790

Number of blocked calls due to channel capacity: 1080

Number of successfully completed calls: 1292

Number of calls in progress: 48

Number of failed calls (blocks + drops): 27299

Current cell radius(km): 9.4654510356

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 32.0 minutes are:

Number of call attempts not counting retries: 31688

Number of call attempts including retries: 58128

Number of dropped calls: 18637

Number of blocked calls due to signal strength: 10458

Number of blocked calls due to channel capacity: 1124

Number of successfully completed calls: 1387

Number of calls in progress: 53

Number of failed calls (blocks + drops): 29095

Current cell radius(km): 8.78656503541

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 34.0 minutes are:

Number of call attempts not counting retries: 33707

Number of call attempts including retries: 61857

Number of dropped calls: 19811

Number of blocked calls due to signal strength: 11151

Number of blocked calls due to channel capacity: 1189

Number of successfully completed calls: 1476

Number of calls in progress: 51

Number of failed calls (blocks + drops): 30962

Current cell radius(km): 9.49334895451

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 36.0 minutes are:

Number of call attempts not counting retries: 35714

Number of call attempts including retries: 65518

Number of dropped calls: 21002

Number of blocked calls due to signal strength: 11798

Number of blocked calls due to channel capacity: 1283

Number of successfully completed calls: 1551

Number of calls in progress: 50

Number of failed calls (blocks + drops): 32800

Current cell radius(km): 9.97411943787

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 38.0 minutes are:

Number of call attempts not counting retries: 37727

Number of call attempts including retries: 69224

Number of dropped calls: 22199

Number of blocked calls due to signal strength: 12460

Number of blocked calls due to channel capacity: 1354

Number of successfully completed calls: 1625

Number of calls in progress: 56

Number of failed calls (blocks + drops): 34659

Current cell radius(km): 9.71320613917

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 40.0 minutes are:

Number of call attempts not counting retries: 39658

Number of call attempts including retries: 72725

Number of dropped calls: 23370

Number of blocked calls due to signal strength: 13081

Number of blocked calls due to channel capacity: 1433

Number of successfully completed calls: 1701

Number of calls in progress: 48

Number of failed calls (blocks + drops): 36451

Current cell radius(km): 9.97995402212

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 42.0 minutes are:

Number of call attempts not counting retries: 41659

Number of call attempts including retries: 76340

Number of dropped calls: 24566

Number of blocked calls due to signal strength: 13724

Number of blocked calls due to channel capacity: 1513

Number of successfully completed calls: 1773

Number of calls in progress: 54

Number of failed calls (blocks + drops): 38290

Current cell radius(km): 9.93854077013

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 44.0 minutes are:

Number of call attempts not counting retries: 43642

Number of call attempts including retries: 79965

Number of dropped calls: 25753

Number of blocked calls due to signal strength: 14360

Number of blocked calls due to channel capacity: 1590

Number of successfully completed calls: 1851

Number of calls in progress: 56

Number of failed calls (blocks + drops): 40113

Current cell radius(km): 9.75477761448

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 46.0 minutes are:

Number of call attempts not counting retries: 45589

Number of call attempts including retries: 83463

Number of dropped calls: 26948

Number of blocked calls due to signal strength: 14952

Number of blocked calls due to channel capacity: 1688

Number of successfully completed calls: 1916

Number of calls in progress: 50

Number of failed calls (blocks + drops): 41900

Current cell radius(km): 8.65116467465

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 48.0 minutes are:

Number of call attempts not counting retries: 47697

Number of call attempts including retries: 87293

Number of dropped calls: 28167

Number of blocked calls due to signal strength: 15610

Number of blocked calls due to channel capacity: 1814

Number of successfully completed calls: 2005

Number of calls in progress: 53

Number of failed calls (blocks + drops): 43777

Current cell radius(km): 9.95310089346

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 50.0 minutes are:

Number of call attempts not counting retries: 49684

Number of call attempts including retries: 90979

Number of dropped calls: 29355

Number of blocked calls due to signal strength: 16304

Number of blocked calls due to channel capacity: 1871

Number of successfully completed calls: 2082

Number of calls in progress: 46

Number of failed calls (blocks + drops): 45659

Current cell radius(km): 9.69543935912

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 52.0 minutes are:

Number of call attempts not counting retries: 51586

Number of call attempts including retries: 94466

Number of dropped calls: 30504

Number of blocked calls due to signal strength: 16942

Number of blocked calls due to channel capacity: 1903

Number of successfully completed calls: 2158

Number of calls in progress: 48

Number of failed calls (blocks + drops): 47446

Current cell radius(km): 9.17705070572

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 54.0 minutes are:

Number of call attempts not counting retries: 53565

Number of call attempts including retries: 98093

Number of dropped calls: 31672

Number of blocked calls due to signal strength: 17589

Number of blocked calls due to channel capacity: 1966

Number of successfully completed calls: 2251

Number of calls in progress: 56

Number of failed calls (blocks + drops): 49261

Current cell radius(km): 9.87337697361

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 56.0 minutes are:

Number of call attempts not counting retries: 55598

Number of call attempts including retries: 101825

Number of dropped calls: 32879

Number of blocked calls due to signal strength: 18259

Number of blocked calls due to channel capacity: 2033

Number of successfully completed calls: 2339

Number of calls in progress: 52

Number of failed calls (blocks + drops): 51138

Current cell radius(km): 9.56288197695

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 58.0 minutes are:

Number of call attempts not counting retries: 57607

Number of call attempts including retries: 105519

Number of dropped calls: 34043

Number of blocked calls due to signal strength: 18940

Number of blocked calls due to channel capacity: 2107

Number of successfully completed calls: 2429

Number of calls in progress: 56

Number of failed calls (blocks + drops): 52983

Current cell radius(km): 9.32280880795

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 60.0 minutes are:

Number of call attempts not counting retries: 59592

Number of call attempts including retries: 109244

Number of dropped calls: 35217

Number of blocked calls due to signal strength: 19632

Number of blocked calls due to channel capacity: 2142

Number of successfully completed calls: 2515

Number of calls in progress: 52

Number of failed calls (blocks + drops): 54849

Current cell radius(km): 9.95655422581

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 62.0 minutes are:

Number of call attempts not counting retries: 61447

Number of call attempts including retries: 112652

Number of dropped calls: 36350

Number of blocked calls due to signal strength: 20249

Number of blocked calls due to channel capacity: 2176

Number of successfully completed calls: 2593

Number of calls in progress: 48

Number of failed calls (blocks + drops): 56599

Current cell radius(km): 9.01548338194

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 64.0 minutes are:

Number of call attempts not counting retries: 63380

Number of call attempts including retries: 116226

Number of dropped calls: 37488

Number of blocked calls due to signal strength: 20909

Number of blocked calls due to channel capacity: 2223

Number of successfully completed calls: 2672

Number of calls in progress: 54

Number of failed calls (blocks + drops): 58397

Current cell radius(km): 9.75593905998

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 66.0 minutes are:

Number of call attempts not counting retries: 65335

Number of call attempts including retries: 119788

Number of dropped calls: 38676

Number of blocked calls due to signal strength: 21547

Number of blocked calls due to channel capacity: 2273

Number of successfully completed calls: 2753

Number of calls in progress: 49

Number of failed calls (blocks + drops): 60223

Current cell radius(km): 9.83015665341

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 68.0 minutes are:

Number of call attempts not counting retries: 67234

Number of call attempts including retries: 123220

Number of dropped calls: 39809

Number of blocked calls due to signal strength: 22148

Number of blocked calls due to channel capacity: 2341

Number of successfully completed calls: 2841

Number of calls in progress: 56

Number of failed calls (blocks + drops): 61957

Current cell radius(km): 9.66180025642

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 70.0 minutes are:

Number of call attempts not counting retries: 69265

Number of call attempts including retries: 126980

Number of dropped calls: 40994

Number of blocked calls due to signal strength: 22834

Number of blocked calls due to channel capacity: 2421

Number of successfully completed calls: 2924

Number of calls in progress: 53

Number of failed calls (blocks + drops): 63828

Current cell radius(km): 9.86250490759

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 72.0 minutes are:

Number of call attempts not counting retries: 71259

Number of call attempts including retries: 130709

Number of dropped calls: 42166

Number of blocked calls due to signal strength: 23532

Number of blocked calls due to channel capacity: 2488

Number of successfully completed calls: 3000

Number of calls in progress: 43

Number of failed calls (blocks + drops): 65698

Current cell radius(km): 9.82701652276

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 74.0 minutes are:

Number of call attempts not counting retries: 73213

Number of call attempts including retries: 134337

Number of dropped calls: 43314

Number of blocked calls due to signal strength: 24215

Number of blocked calls due to channel capacity: 2533

Number of successfully completed calls: 3083

Number of calls in progress: 36

Number of failed calls (blocks + drops): 67529

Current cell radius(km): 9.57175790923

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 76.0 minutes are:

Number of call attempts not counting retries: 75207

Number of call attempts including retries: 138006

Number of dropped calls: 44477

Number of blocked calls due to signal strength: 24878

Number of blocked calls due to channel capacity: 2602

Number of successfully completed calls: 3167

Number of calls in progress: 56

Number of failed calls (blocks + drops): 69355

Current cell radius(km): 9.7901080131

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 78.0 minutes are:

Number of call attempts not counting retries: 77212

Number of call attempts including retries: 141798

Number of dropped calls: 45635

Number of blocked calls due to signal strength: 25586

Number of blocked calls due to channel capacity: 2658

Number of successfully completed calls: 3250

Number of calls in progress: 55

Number of failed calls (blocks + drops): 71221

Current cell radius(km): 9.49974448239

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 80.0 minutes are:

Number of call attempts not counting retries: 79236

Number of call attempts including retries: 145495

Number of dropped calls: 46817

Number of blocked calls due to signal strength: 26246

Number of blocked calls due to channel capacity: 2739

Number of successfully completed calls: 3342

Number of calls in progress: 55

Number of failed calls (blocks + drops): 73063

Current cell radius(km): 8.77496644415

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 82.0 minutes are:

Number of call attempts not counting retries: 81190

Number of call attempts including retries: 149120

Number of dropped calls: 47979

Number of blocked calls due to signal strength: 26929

Number of blocked calls due to channel capacity: 2784

Number of successfully completed calls: 3416

Number of calls in progress: 54

Number of failed calls (blocks + drops): 74908

Current cell radius(km): 9.8891905153

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 84.0 minutes are:

Number of call attempts not counting retries: 83148

Number of call attempts including retries: 152637

Number of dropped calls: 49141

Number of blocked calls due to signal strength: 27548

Number of blocked calls due to channel capacity: 2864

Number of successfully completed calls: 3513

Number of calls in progress: 51

Number of failed calls (blocks + drops): 76689

Current cell radius(km): 9.63125635964

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 86.0 minutes are:

Number of call attempts not counting retries: 85080

Number of call attempts including retries: 156217

Number of dropped calls: 50299

Number of blocked calls due to signal strength: 28202

Number of blocked calls due to channel capacity: 2895

Number of successfully completed calls: 3593

Number of calls in progress: 48

Number of failed calls (blocks + drops): 78501

Current cell radius(km): 8.50023973582

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 88.0 minutes are:

Number of call attempts not counting retries: 87047

Number of call attempts including retries: 159916

Number of dropped calls: 51441

Number of blocked calls due to signal strength: 28895

Number of blocked calls due to channel capacity: 2976

Number of successfully completed calls: 3665

Number of calls in progress: 43

Number of failed calls (blocks + drops): 80336

Current cell radius(km): 9.20984183236

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 90.0 minutes are:

Number of call attempts not counting retries: 89035

Number of call attempts including retries: 163497

Number of dropped calls: 52633

Number of blocked calls due to signal strength: 29538

Number of blocked calls due to channel capacity: 3047

Number of successfully completed calls: 3728

Number of calls in progress: 54

Number of failed calls (blocks + drops): 82171

Current cell radius(km): 9.5467482951

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 92.0 minutes are:

Number of call attempts not counting retries: 90991

Number of call attempts including retries: 167001

Number of dropped calls: 53827

Number of blocked calls due to signal strength: 30134

Number of blocked calls due to channel capacity: 3133

Number of successfully completed calls: 3819

Number of calls in progress: 46

Number of failed calls (blocks + drops): 83961

Current cell radius(km): 9.8997235518

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 94.0 minutes are:

Number of call attempts not counting retries: 92935

Number of call attempts including retries: 170518

Number of dropped calls: 55006

Number of blocked calls due to signal strength: 30757

Number of blocked calls due to channel capacity: 3208

Number of successfully completed calls: 3886

Number of calls in progress: 45

Number of failed calls (blocks + drops): 85763

Current cell radius(km): 9.98521533098

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 96.0 minutes are:

Number of call attempts not counting retries: 94902

Number of call attempts including retries: 174132

Number of dropped calls: 56161

Number of blocked calls due to signal strength: 31407

Number of blocked calls due to channel capacity: 3281

Number of successfully completed calls: 3966

Number of calls in progress: 51

Number of failed calls (blocks + drops): 87568

Current cell radius(km): 9.03569932903

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 98.0 minutes are:

Number of call attempts not counting retries: 96905

Number of call attempts including retries: 177808

Number of dropped calls: 57330

Number of blocked calls due to signal strength: 32076

Number of blocked calls due to channel capacity: 3359

Number of successfully completed calls: 4050

Number of calls in progress: 52

Number of failed calls (blocks + drops): 89406

Current cell radius(km): 9.90817426831

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 100.0 minutes are:

Number of call attempts not counting retries: 98893

Number of call attempts including retries: 181505

Number of dropped calls: 58505

Number of blocked calls due to signal strength: 32761

Number of blocked calls due to channel capacity: 3414

Number of successfully completed calls: 4133

Number of calls in progress: 56

Number of failed calls (blocks + drops): 91266

Current cell radius(km): 9.86292190566

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 102.0 minutes are:

Number of call attempts not counting retries: 100867

Number of call attempts including retries: 185247

Number of dropped calls: 59643

Number of blocked calls due to signal strength: 33463

Number of blocked calls due to channel capacity: 3472

Number of successfully completed calls: 4210

Number of calls in progress: 48

Number of failed calls (blocks + drops): 93106

Current cell radius(km): 9.02725025341

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 104.0 minutes are:

Number of call attempts not counting retries: 102808

Number of call attempts including retries: 188932

Number of dropped calls: 60774

Number of blocked calls due to signal strength: 34140

Number of blocked calls due to channel capacity: 3502

Number of successfully completed calls: 4294

Number of calls in progress: 50

Number of failed calls (blocks + drops): 94914

Current cell radius(km): 9.91026371684

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 106.0 minutes are:

Number of call attempts not counting retries: 104817

Number of call attempts including retries: 192661

Number of dropped calls: 61957

Number of blocked calls due to signal strength: 34827

Number of blocked calls due to channel capacity: 3574

Number of successfully completed calls: 4376

Number of calls in progress: 51

Number of failed calls (blocks + drops): 96784

Current cell radius(km): 9.59203855736

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 108.0 minutes are:

Number of call attempts not counting retries: 106827

Number of call attempts including retries: 196419

Number of dropped calls: 63139

Number of blocked calls due to signal strength: 35520

Number of blocked calls due to channel capacity: 3615

Number of successfully completed calls: 4460

Number of calls in progress: 56

Number of failed calls (blocks + drops): 98659

Current cell radius(km): 9.87718494126

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 110.0 minutes are:

Number of call attempts not counting retries: 108852

Number of call attempts including retries: 200161

Number of dropped calls: 64325

Number of blocked calls due to signal strength: 36202

Number of blocked calls due to channel capacity: 3688

Number of successfully completed calls: 4548

Number of calls in progress: 54

Number of failed calls (blocks + drops): 100527

Current cell radius(km): 9.79327956289

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 112.0 minutes are:

Number of call attempts not counting retries: 110731

Number of call attempts including retries: 203627

Number of dropped calls: 65472

Number of blocked calls due to signal strength: 36837

Number of blocked calls due to channel capacity: 3723

Number of successfully completed calls: 4629

Number of calls in progress: 45

Number of failed calls (blocks + drops): 102309

Current cell radius(km): 9.36255343988

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 114.0 minutes are:

Number of call attempts not counting retries: 112686

Number of call attempts including retries: 207175

Number of dropped calls: 66647

Number of blocked calls due to signal strength: 37470

Number of blocked calls due to channel capacity: 3763

Number of successfully completed calls: 4714

Number of calls in progress: 56

Number of failed calls (blocks + drops): 104117

Current cell radius(km): 9.42800670628

Current Pilot EIRP is: 52.0

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Statistics at 116.0 minutes are:

Number of call attempts not counting retries: 114654

Number of call attempts including retries: 210761

Number of dropped calls: 67818

Number of blocked calls due to signal strength: 38130

Number of blocked calls due to channel capacity: 3822

Number of successfully completed calls: 4795

Number of calls in progress: 53

Number of failed calls (blocks + drops): 105948

Current cell radius(km): 9.69267808534

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics at 118.0 minutes are:

Number of call attempts not counting retries: 116589

Number of call attempts including retries: 214319

Number of dropped calls: 68971

Number of blocked calls due to signal strength: 38783

Number of blocked calls due to channel capacity: 3877

Number of successfully completed calls: 4879

Number of calls in progress: 50

Number of failed calls (blocks + drops): 107754

Current cell radius(km): 9.93738514762

Current Pilot EIRP is: 52.0

---------------------------------------------------

Statistics after 2 hours are:

Number of call attempts not counting retries: 118604

Number of call attempts including retries: 217992

Number of dropped calls: 70162

Number of blocked calls due to signal strength: 39434

Number of blocked calls due to channel capacity: 3964

Number of successfully completed calls: 4957

Number of calls in progress: 49

Number of failed calls (blocks + drops): 107754

Current cell radius(km): 9.70304127613

Current Pilot EIRP is: 52.0

>>>

# Output: 10K Users – power control

Python 3.6.0 |Continuum Analytics, Inc.| (default, Dec 23 2016, 11:57:41) [MSC v.1900 64 bit (AMD64)] on win32

Type "copyright", "credits" or "license()" for more information.

>>>

== RESTART: C:/Users/Ashish Joshi/Desktop/UMD/656/Project/Final Version.py ==

---------------------------------------------------

Statistics at 2.0 minutes are:

Number of call attempts not counting retries: 2004

Number of call attempts including retries: 5566

Number of dropped calls: 141

Number of blocked calls due to signal strength: 1709

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 54

Number of calls in progress: 22

Number of failed calls (blocks + drops): 1850

Current cell radius(km): 3.27376290504

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 4.0 minutes are:

Number of call attempts not counting retries: 4010

Number of call attempts including retries: 11444

Number of dropped calls: 170

Number of blocked calls due to signal strength: 3641

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 104

Number of calls in progress: 25

Number of failed calls (blocks + drops): 3811

Current cell radius(km): 2.26933199245

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 6.0 minutes are:

Number of call attempts not counting retries: 5988

Number of call attempts including retries: 17243

Number of dropped calls: 196

Number of blocked calls due to signal strength: 5544

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 152

Number of calls in progress: 25

Number of failed calls (blocks + drops): 5740

Current cell radius(km): 2.65890838275

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 8.0 minutes are:

Number of call attempts not counting retries: 8037

Number of call attempts including retries: 23287

Number of dropped calls: 214

Number of blocked calls due to signal strength: 7523

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 205

Number of calls in progress: 23

Number of failed calls (blocks + drops): 7737

Current cell radius(km): 2.64940884574

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 10.0 minutes are:

Number of call attempts not counting retries: 10028

Number of call attempts including retries: 29136

Number of dropped calls: 230

Number of blocked calls due to signal strength: 9451

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 260

Number of calls in progress: 25

Number of failed calls (blocks + drops): 9681

Current cell radius(km): 2.61073370056

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 12.0 minutes are:

Number of call attempts not counting retries: 12063

Number of call attempts including retries: 35093

Number of dropped calls: 273

Number of blocked calls due to signal strength: 11388

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 305

Number of calls in progress: 26

Number of failed calls (blocks + drops): 11661

Current cell radius(km): 3.0346277263

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 14.0 minutes are:

Number of call attempts not counting retries: 14065

Number of call attempts including retries: 40977

Number of dropped calls: 287

Number of blocked calls due to signal strength: 13318

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 358

Number of calls in progress: 26

Number of failed calls (blocks + drops): 13605

Current cell radius(km): 2.50798294151

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 16.0 minutes are:

Number of call attempts not counting retries: 16098

Number of call attempts including retries: 46956

Number of dropped calls: 309

Number of blocked calls due to signal strength: 15284

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 409

Number of calls in progress: 28

Number of failed calls (blocks + drops): 15593

Current cell radius(km): 2.06180685743

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 18.0 minutes are:

Number of call attempts not counting retries: 18209

Number of call attempts including retries: 53138

Number of dropped calls: 327

Number of blocked calls due to signal strength: 17309

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 464

Number of calls in progress: 29

Number of failed calls (blocks + drops): 17636

Current cell radius(km): 2.11176792898

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 20.0 minutes are:

Number of call attempts not counting retries: 20248

Number of call attempts including retries: 59135

Number of dropped calls: 351

Number of blocked calls due to signal strength: 19278

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 522

Number of calls in progress: 20

Number of failed calls (blocks + drops): 19629

Current cell radius(km): 2.2264212579

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 22.0 minutes are:

Number of call attempts not counting retries: 22254

Number of call attempts including retries: 65024

Number of dropped calls: 387

Number of blocked calls due to signal strength: 21214

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 558

Number of calls in progress: 26

Number of failed calls (blocks + drops): 21601

Current cell radius(km): 2.38885088714

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 24.0 minutes are:

Number of call attempts not counting retries: 24219

Number of call attempts including retries: 70824

Number of dropped calls: 410

Number of blocked calls due to signal strength: 23118

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 599

Number of calls in progress: 21

Number of failed calls (blocks + drops): 23528

Current cell radius(km): 2.25709153582

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 26.0 minutes are:

Number of call attempts not counting retries: 26290

Number of call attempts including retries: 76917

Number of dropped calls: 423

Number of blocked calls due to signal strength: 25110

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 661

Number of calls in progress: 25

Number of failed calls (blocks + drops): 25533

Current cell radius(km): 2.95391265268

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 28.0 minutes are:

Number of call attempts not counting retries: 28278

Number of call attempts including retries: 82760

Number of dropped calls: 444

Number of blocked calls due to signal strength: 27030

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 707

Number of calls in progress: 27

Number of failed calls (blocks + drops): 27474

Current cell radius(km): 2.27722671812

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 30.0 minutes are:

Number of call attempts not counting retries: 30235

Number of call attempts including retries: 88528

Number of dropped calls: 460

Number of blocked calls due to signal strength: 28919

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 759

Number of calls in progress: 22

Number of failed calls (blocks + drops): 29379

Current cell radius(km): 2.48306767707

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 32.0 minutes are:

Number of call attempts not counting retries: 32137

Number of call attempts including retries: 94133

Number of dropped calls: 480

Number of blocked calls due to signal strength: 30768

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 804

Number of calls in progress: 25

Number of failed calls (blocks + drops): 31248

Current cell radius(km): 2.70064482154

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 34.0 minutes are:

Number of call attempts not counting retries: 34121

Number of call attempts including retries: 99960

Number of dropped calls: 494

Number of blocked calls due to signal strength: 32674

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 858

Number of calls in progress: 25

Number of failed calls (blocks + drops): 33168

Current cell radius(km): 2.63555450549

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 36.0 minutes are:

Number of call attempts not counting retries: 36093

Number of call attempts including retries: 105778

Number of dropped calls: 499

Number of blocked calls due to signal strength: 34593

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 908

Number of calls in progress: 23

Number of failed calls (blocks + drops): 35092

Current cell radius(km): 2.69955435187

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 38.0 minutes are:

Number of call attempts not counting retries: 38063

Number of call attempts including retries: 111544

Number of dropped calls: 537

Number of blocked calls due to signal strength: 36472

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 950

Number of calls in progress: 24

Number of failed calls (blocks + drops): 37009

Current cell radius(km): 2.31402366858

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 40.0 minutes are:

Number of call attempts not counting retries: 39996

Number of call attempts including retries: 117238

Number of dropped calls: 560

Number of blocked calls due to signal strength: 38348

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 994

Number of calls in progress: 24

Number of failed calls (blocks + drops): 38908

Current cell radius(km): 2.50130865301

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 42.0 minutes are:

Number of call attempts not counting retries: 41979

Number of call attempts including retries: 123091

Number of dropped calls: 563

Number of blocked calls due to signal strength: 40282

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 1040

Number of calls in progress: 23

Number of failed calls (blocks + drops): 40845

Current cell radius(km): 2.15228452839

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 44.0 minutes are:

Number of call attempts not counting retries: 43945

Number of call attempts including retries: 128890

Number of dropped calls: 566

Number of blocked calls due to signal strength: 42195

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 1095

Number of calls in progress: 23

Number of failed calls (blocks + drops): 42761

Current cell radius(km): 2.0989599464

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 46.0 minutes are:

Number of call attempts not counting retries: 45914

Number of call attempts including retries: 134692

Number of dropped calls: 590

Number of blocked calls due to signal strength: 44103

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 1138

Number of calls in progress: 25

Number of failed calls (blocks + drops): 44693

Current cell radius(km): 1.85867607835

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 48.0 minutes are:

Number of call attempts not counting retries: 47841

Number of call attempts including retries: 140363

Number of dropped calls: 600

Number of blocked calls due to signal strength: 45963

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 1193

Number of calls in progress: 22

Number of failed calls (blocks + drops): 46563

Current cell radius(km): 2.14072085818

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 50.0 minutes are:

Number of call attempts not counting retries: 49871

Number of call attempts including retries: 146333

Number of dropped calls: 615

Number of blocked calls due to signal strength: 47911

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 1241

Number of calls in progress: 25

Number of failed calls (blocks + drops): 48526

Current cell radius(km): 2.43018606405

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 52.0 minutes are:

Number of call attempts not counting retries: 51820

Number of call attempts including retries: 152065

Number of dropped calls: 632

Number of blocked calls due to signal strength: 49802

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 1289

Number of calls in progress: 28

Number of failed calls (blocks + drops): 50434

Current cell radius(km): 2.83711622857

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 54.0 minutes are:

Number of call attempts not counting retries: 53795

Number of call attempts including retries: 157865

Number of dropped calls: 671

Number of blocked calls due to signal strength: 51695

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 1336

Number of calls in progress: 29

Number of failed calls (blocks + drops): 52366

Current cell radius(km): 3.10536797721

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 56.0 minutes are:

Number of call attempts not counting retries: 55803

Number of call attempts including retries: 163708

Number of dropped calls: 707

Number of blocked calls due to signal strength: 53594

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 1393

Number of calls in progress: 25

Number of failed calls (blocks + drops): 54301

Current cell radius(km): 2.22220916736

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 58.0 minutes are:

Number of call attempts not counting retries: 57818

Number of call attempts including retries: 169663

Number of dropped calls: 708

Number of blocked calls due to signal strength: 55570

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 1446

Number of calls in progress: 27

Number of failed calls (blocks + drops): 56278

Current cell radius(km): 2.22514413199

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 60.0 minutes are:

Number of call attempts not counting retries: 59794

Number of call attempts including retries: 175483

Number of dropped calls: 727

Number of blocked calls due to signal strength: 57477

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 1486

Number of calls in progress: 24

Number of failed calls (blocks + drops): 58204

Current cell radius(km): 2.20283671958

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 62.0 minutes are:

Number of call attempts not counting retries: 61743

Number of call attempts including retries: 181205

Number of dropped calls: 753

Number of blocked calls due to signal strength: 59365

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 1533

Number of calls in progress: 26

Number of failed calls (blocks + drops): 60118

Current cell radius(km): 2.12302838176

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 64.0 minutes are:

Number of call attempts not counting retries: 63637

Number of call attempts including retries: 186762

Number of dropped calls: 778

Number of blocked calls due to signal strength: 61186

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 1576

Number of calls in progress: 26

Number of failed calls (blocks + drops): 61964

Current cell radius(km): 2.12058182006

Current Pilot EIRP is: 30.0

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Statistics at 66.0 minutes are:

Number of call attempts not counting retries: 65658

Number of call attempts including retries: 192707

Number of dropped calls: 798

Number of blocked calls due to signal strength: 63144

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 1628

Number of calls in progress: 28

Number of failed calls (blocks + drops): 63942

Current cell radius(km): 2.30757395771

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 68.0 minutes are:

Number of call attempts not counting retries: 67661

Number of call attempts including retries: 198624

Number of dropped calls: 805

Number of blocked calls due to signal strength: 65088

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 1683

Number of calls in progress: 26

Number of failed calls (blocks + drops): 65893

Current cell radius(km): 2.51407552763

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 70.0 minutes are:

Number of call attempts not counting retries: 69649

Number of call attempts including retries: 204478

Number of dropped calls: 819

Number of blocked calls due to signal strength: 67002

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 1736

Number of calls in progress: 24

Number of failed calls (blocks + drops): 67821

Current cell radius(km): 2.10701123482

Current Pilot EIRP is: 30.0

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Statistics at 72.0 minutes are:

Number of call attempts not counting retries: 71543

Number of call attempts including retries: 210061

Number of dropped calls: 825

Number of blocked calls due to signal strength: 68848

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 1789

Number of calls in progress: 25

Number of failed calls (blocks + drops): 69673

Current cell radius(km): 2.17833055614

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 74.0 minutes are:

Number of call attempts not counting retries: 73528

Number of call attempts including retries: 215895

Number of dropped calls: 850

Number of blocked calls due to signal strength: 70754

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 1834

Number of calls in progress: 23

Number of failed calls (blocks + drops): 71604

Current cell radius(km): 2.99776761003

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 76.0 minutes are:

Number of call attempts not counting retries: 75511

Number of call attempts including retries: 221709

Number of dropped calls: 871

Number of blocked calls due to signal strength: 72660

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 1883

Number of calls in progress: 24

Number of failed calls (blocks + drops): 73531

Current cell radius(km): 2.56011230804

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 78.0 minutes are:

Number of call attempts not counting retries: 77524

Number of call attempts including retries: 227617

Number of dropped calls: 891

Number of blocked calls due to signal strength: 74598

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 1938

Number of calls in progress: 27

Number of failed calls (blocks + drops): 75489

Current cell radius(km): 2.54657637657

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 80.0 minutes are:

Number of call attempts not counting retries: 79544

Number of call attempts including retries: 233534

Number of dropped calls: 905

Number of blocked calls due to signal strength: 76532

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 1998

Number of calls in progress: 25

Number of failed calls (blocks + drops): 77437

Current cell radius(km): 2.76283780913

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 82.0 minutes are:

Number of call attempts not counting retries: 81591

Number of call attempts including retries: 239583

Number of dropped calls: 931

Number of blocked calls due to signal strength: 78531

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 2049

Number of calls in progress: 22

Number of failed calls (blocks + drops): 79462

Current cell radius(km): 2.24932922989

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 84.0 minutes are:

Number of call attempts not counting retries: 83575

Number of call attempts including retries: 245373

Number of dropped calls: 971

Number of blocked calls due to signal strength: 80414

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 2095

Number of calls in progress: 26

Number of failed calls (blocks + drops): 81385

Current cell radius(km): 2.48797678965

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 86.0 minutes are:

Number of call attempts not counting retries: 85585

Number of call attempts including retries: 251284

Number of dropped calls: 1002

Number of blocked calls due to signal strength: 82351

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 2136

Number of calls in progress: 22

Number of failed calls (blocks + drops): 83353

Current cell radius(km): 3.0822836117

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 88.0 minutes are:

Number of call attempts not counting retries: 87569

Number of call attempts including retries: 257112

Number of dropped calls: 1012

Number of blocked calls due to signal strength: 84264

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 2195

Number of calls in progress: 24

Number of failed calls (blocks + drops): 85276

Current cell radius(km): 2.16269461243

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 90.0 minutes are:

Number of call attempts not counting retries: 89565

Number of call attempts including retries: 262986

Number of dropped calls: 1033

Number of blocked calls due to signal strength: 86186

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 2246

Number of calls in progress: 25

Number of failed calls (blocks + drops): 87219

Current cell radius(km): 2.28356728655

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 92.0 minutes are:

Number of call attempts not counting retries: 91492

Number of call attempts including retries: 268654

Number of dropped calls: 1037

Number of blocked calls due to signal strength: 88056

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 2302

Number of calls in progress: 24

Number of failed calls (blocks + drops): 89093

Current cell radius(km): 2.21096675541

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 94.0 minutes are:

Number of call attempts not counting retries: 93455

Number of call attempts including retries: 274447

Number of dropped calls: 1047

Number of blocked calls due to signal strength: 89961

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 2348

Number of calls in progress: 27

Number of failed calls (blocks + drops): 91008

Current cell radius(km): 2.38352205264

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 96.0 minutes are:

Number of call attempts not counting retries: 95375

Number of call attempts including retries: 280081

Number of dropped calls: 1070

Number of blocked calls due to signal strength: 91814

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 2399

Number of calls in progress: 23

Number of failed calls (blocks + drops): 92884

Current cell radius(km): 4.55830903074

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 98.0 minutes are:

Number of call attempts not counting retries: 97345

Number of call attempts including retries: 285873

Number of dropped calls: 1109

Number of blocked calls due to signal strength: 93715

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 2434

Number of calls in progress: 24

Number of failed calls (blocks + drops): 94824

Current cell radius(km): 2.75927922939

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 100.0 minutes are:

Number of call attempts not counting retries: 99294

Number of call attempts including retries: 291592

Number of dropped calls: 1131

Number of blocked calls due to signal strength: 95589

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 2480

Number of calls in progress: 27

Number of failed calls (blocks + drops): 96720

Current cell radius(km): 2.34278334452

Current Pilot EIRP is: 30.0

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Statistics at 102.0 minutes are:

Number of call attempts not counting retries: 101218

Number of call attempts including retries: 297249

Number of dropped calls: 1147

Number of blocked calls due to signal strength: 97447

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 2531

Number of calls in progress: 26

Number of failed calls (blocks + drops): 98594

Current cell radius(km): 2.34028685624

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 104.0 minutes are:

Number of call attempts not counting retries: 103140

Number of call attempts including retries: 302902

Number of dropped calls: 1163

Number of blocked calls due to signal strength: 99308

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 2585

Number of calls in progress: 26

Number of failed calls (blocks + drops): 100471

Current cell radius(km): 2.52505457447

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 106.0 minutes are:

Number of call attempts not counting retries: 105115

Number of call attempts including retries: 308698

Number of dropped calls: 1177

Number of blocked calls due to signal strength: 101199

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 2640

Number of calls in progress: 27

Number of failed calls (blocks + drops): 102376

Current cell radius(km): 2.55909919055

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 108.0 minutes are:

Number of call attempts not counting retries: 107038

Number of call attempts including retries: 314362

Number of dropped calls: 1188

Number of blocked calls due to signal strength: 103068

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 2691

Number of calls in progress: 26

Number of failed calls (blocks + drops): 104256

Current cell radius(km): 2.80421427379

Current Pilot EIRP is: 30.0

---------------------------------------------------

Statistics at 110.0 minutes are:

Number of call attempts not counting retries: 108994

Number of call attempts including retries: 320074

Number of dropped calls: 1241

Number of blocked calls due to signal strength: 104925

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 2723

Number of calls in progress: 26

Number of failed calls (blocks + drops): 106166

Current cell radius(km): 2.70335942493

Current Pilot EIRP is: 30.0

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Statistics at 112.0 minutes are:

Number of call attempts not counting retries: 110955

Number of call attempts including retries: 325875

Number of dropped calls: 1259

Number of blocked calls due to signal strength: 106840

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 2775

Number of calls in progress: 22

Number of failed calls (blocks + drops): 108099

Current cell radius(km): 2.29176936098

Current Pilot EIRP is: 30.0

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Statistics at 114.0 minutes are:

Number of call attempts not counting retries: 112964

Number of call attempts including retries: 331785

Number of dropped calls: 1271

Number of blocked calls due to signal strength: 108768

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 2818

Number of calls in progress: 27

Number of failed calls (blocks + drops): 110039

Current cell radius(km): 2.15678748879

Current Pilot EIRP is: 30.0

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Statistics at 116.0 minutes are:

Number of call attempts not counting retries: 114891

Number of call attempts including retries: 337460

Number of dropped calls: 1287

Number of blocked calls due to signal strength: 110644

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 2875

Number of calls in progress: 26

Number of failed calls (blocks + drops): 111931

Current cell radius(km): 2.58869005746

Current Pilot EIRP is: 30.0

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Statistics at 118.0 minutes are:

Number of call attempts not counting retries: 116899

Number of call attempts including retries: 343376

Number of dropped calls: 1299

Number of blocked calls due to signal strength: 112583

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 2927

Number of calls in progress: 18

Number of failed calls (blocks + drops): 113882

Current cell radius(km): 2.83168368432

Current Pilot EIRP is: 30.0

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Statistics after 2 hours are:

Number of call attempts not counting retries: 118864

Number of call attempts including retries: 349149

Number of dropped calls: 1321

Number of blocked calls due to signal strength: 114485

Number of blocked calls due to channel capacity: 5

Number of successfully completed calls: 2966

Number of calls in progress: 19

Number of failed calls (blocks + drops): 113882

Current cell radius(km): 2.26534964486

Current Pilot EIRP is: 30.0

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