

IT TOOLS CADASTRAL PROCESSING SYSTEM

Landsoft Sdn Bhd

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ITOLS INTRODUCTION

- **iToolS can be considered as Data Conversion Tools, which is convert the Hardcopy FieldBook in to Digital Form.**
 - **Data Key in for Field Data (measured Line), PO Lines**
 - **With graphic**
- **iToolS also used to process the Field Data,**
 - **Definition of Coordinate, Traverse, Lot, Missing Line**
 - **Computation of Traverse/Lot Misclose, Missing Line, PO & New Comparison, Datum & Refixation.**
- **iToolS will be able to generate the ASCII files as per Jupem required format.**



WHY USING ITOOLS

- iTooLS can convert all the RAW data in conventional method to digital form
- User Friendly, easy understanding and faster to key in as our data entry form design is similar to the conventional Field Book.
- Linked Graphic display
- All the computation will be done by iTooLS, no more manual calculation
- Easier checking with reports.



REQUIREMENT

- Compatibility with Window 7 or above
- 32/64 bit OS
- Installation on Desktop PC or Note Book
- Microsoft Office (optional for reporting)
- PDF Reader (optional for reporting)



ITOLS FEATURES

1. Job Information Entry
2. Data Entry
 - Sun Observation (If any)
 - Field data
 - DFT
 - Datum
 - Traverse / Online Point / Offset Details
 - Check Angle & Distance
 - Bearing Close
 - Close Statement
 - PO Line
 - Precomp Area (if do not have PU ASCII Return from J2u)
3. Data Editing



4. C or M Correction

5. Definition

- Coordinate
- Traverse
- Lot
- Direct Line (Missing Line)
- Connection Line (If any)

6. Computation

- Traverse
- Direct Line
- Lot
- Coordinate
- Area Comparison



7. Baseline & Refixation

- PO & New Comparison
- PO Adjustment & Refixation

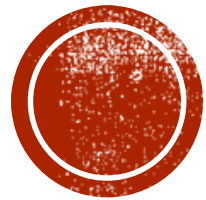
8. Bookkeeping

- Date Time of Observation Record
- Sequence of Observation Record

9. Import & Export

- Import PU ASCII (Precomp ASCII) for Area Comparison
- Export 16 ASCII file (Compliant with DIGITAL ASCII files by Jupem)
- Export DXF File (Sketch)





IT TOOLS OVERVIEW



- [MainFrame]

File FieldBook Correction Computation Record Tools Graphic Layer Report Window Help

Menu Bar

Icon Bar

Cal FR View FB Locate

	PENYILANG	PENYILANG	PURATA	DARI	BERING	KE	SUDUT	JARAK	JARAK
	KIRI	KANAN			MUKTAMAD		ZENITH		MUKTAMAD
				BKL		pK			
								<input type="checkbox"/> Refer Trav	
								<input type="checkbox"/> efix/PickU	

DFT Semakan Harian Datum Traverse Prod Line Prod Line SP Online Deduced Ln Brg Cls

Cls Statement Chk Ang/Dist Check Angle Check Dist. Offset TT Mark Mean Line Party Wall

Field Capture

Graphic Area

Ready PUBLT7964_2007.ebk N 21.66 E 62.36 (m) SCF



JOB INFORMATION

This information will be generated in file *.FAH

JOB INFORMATION

Page 1 Page 2 Date Remarks

Negeri: TERENGGANU 11
Daerah: KUALA TERENGGANU 04
Bdr/Mukim: (M)BELARA
Seksyen: 000
No. Buku: 1

Save Clear
Import from SKL *.job

OK Cancel

JOB INFORMATION

Page 1 Page 2 Date Remarks

No Fail Ukur: PUBLT 7964_2007
No Lot: 1-3
Jenis Kerja Ukur: PECAHAN BAHAGIAN 5
Diukur Oleh: ADAM ROSLI
Kad Pengenalan: 861224035211
Kelas Ukur: CLASS 1
Unit Ukuran: Meter
Alatan Ukur: TOPCON ES_SERIES
TotalStn S/N: 123456
GPSInst S/N:
GPSAnt S/N:

Measurement Mode
 Online Offline

Save Clear

OK Cancel Apply

JOB INFORMATION

Page 1 Page 2 Date Remarks

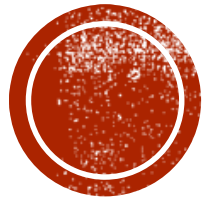
Survey Date

Start Date: 16/06/2007
End Date: 16/06/2007

Save

OK Cancel Apply





DATA ENTRY & PROCESSING



SUN OBSERVATION RECORD IN FIELD BOOK (CONVENTIONAL METHOD)

11 CERAPAN MATAHARI BAGI AZIMUT

Penilik _____ Hari SABTU Tarikh 16 Bulan 6 Tahun 2007

Stesen 2 (Pht) T.R. 1 (Bku) B.K. Ms. 1 Tiodolait (Jenis) _____ Bah. Aras Ufuk - a

Formula Kos sin AZIMUT = $\frac{\cos P - \sin \delta \sin \sigma}{\cos \delta \cos \sigma}$ Pembetulan Aras = $\frac{1}{2} (\Delta R - \Delta L)$ tan σ

Waktu	Ufuk			Galem-bong		Pugak		Tilman ①	Bila waktu jam tangan tidak dalam lingkungan 3 menit daripada waktu pawal hitung waktu umum:	W.U. = 12 ^h + W.T.K. - G. Bujur - E						
J ^h m	P.Ki	T.R.	31 ⁴	2 ⁰	1 ⁰	Ki	Ka			W.T.K.	+	12 ^h	00 ^m			
8.30		⊕	67	15	22	69	05	59	G. Bujur	-						
-31		⊕	66	40	06	68	52	50	T.G. Bujur Origin	E	-					
-32	P.Ka	⊕	246	40	36	291	24	09	W.U. peniklan ①							
-33		⊕	247	19	24	291	39	09	Selisih Waktu	Sela	+					
Purata ①		T.R.	134	20	10				T.G. Bujur sin	W.U. peniklan ②						
J ^h m									Peniklan ①			Peniklan ②				
8.32						21	16	07	Sudut isihwa baca (0) jam U.T. U/9	23	19	36	23	19	36	
8.00	Purata Ke matahari		66	58	52	-	02	07	Selisih μ		03				04	
-32	Purata Ke TR		314	20	10	21	14	00	Biasan & Bedakhat Tinjau Dikaras	Sudut isihwa baca waktu peniklan U/9	23	19	39	23	19	40
J ^h m	P.Ki	T.R.	314	20	10				Jarak kutub - P	66	40	21	66	40	20	
8.35		⊕	67	20	26	67	51	40	G. Lintang - β	5	16	56				
-36		⊕	66	24	36	67	37	40	Tinjau dikaras - α	21	14	00	22	29	32	
-37	P.Ka	⊕	246	25	06	292	41	10	Azimut Matahari yang dikira	67	00	03	66	54	44	
-38		⊕	247	24	29	292	54	20	Azimut (Purata ke matahari)	66	58	52	66	53	39	
Purata ②		T.R.	134	20	10				Selisih - Az - T.ikan	+	01	11	+	01	05	
J ^h m									T.R. yang dibalik (Purata ke TR)	314	20	10	314	20	10	
8.37						22	31	32	T.R. Sebenar (Sel+T.R. yang dibalik)	314	21	21	314	21	15	
8.00	Purata Ke matahari		66	53	39	-	02	00	Purata Tinjau	Aras	±					
-37	Purata Ke TR		314	20	10	22	29	32	Biasan & Bedakhat	Turusan	±		48		48	
Kordinat Origin U/S	m			Kordinat Origin T/B		m		Purata Bg. Dend T.R.		314	20	30				
Stesen U/9	37177.340 m			Stesen T/9		16155.950 m		Dibik oleh								
Jumlah/Sel. U/9	37177.340 m			Jumlah/Sel. T/9		16155.950 m		Dihitung oleh								
Jumlah/Sel. x 0.03256 ±	0	20	10	Sel. G. Bujur - $\frac{\text{Jum Sel}}{\text{Sel}}$ x 0.03246 ±		524		Tarikh								
G. Lintang Origin U	4	56	46	Sel. G. Bujur x Sain G. Lintang =		48''										
G. Lintang Stesen U	5	16	56	T (-) / $\beta - \mu$ Turusan =		48''										

P.Ki - Penyilang Kiri
P.Ka - Penyilang Kanan
T.R. - Tanda Rujuk
Sel - Selisih
W.U. - Waktu Umum
W.T.K. - Waktu Tempatan Kotara



SUN OBSERVATION ENTRY IN ITOOLS

Info Observation Compute Origin Deleted Sun Obs

Penilik : ADAM ROSLI

Negeri : TRENGGANU

Stesen : 2

T.R : 1

Coord Input : Old Cass

Buku : 1

Stn U/S : 37177.340

Stn T/B : 16155.950

Info Observation Compute Origin Deleted Sun Obs

Set 1 Mengufuk

Waktu j m	TR	314.2010	Gelm Ki Ka	Pugak " "
8.30	ki	67.1522	0 0	69.0559
8.31	ki	66.4006	0 0	68.5250
8.32	ka	246.4036	0 0	291.2409
8.33	ka	247.1924	0 0	291.3909
Purata i m	TR2	134.2010	PAltitud (H)	21.1607
8.3200	Purata Ufuk	66.5852	Biasan & Bezalihat	0.0207
	Purata TR	314.2010	Tikaian Laras	21.1400

DELETE Previous Next Save

OK Cancel Apply

Info Observation Compute Origin Deleted Sun Obs

Set 2 Mengufuk

Waktu j m	TR	314.2010	Gelm Ki Ka	Pugak " "
8.35	ki	67.2026	0 0	67.5140
8.36	ki	66.243		
8.37	ka	246.250		
8.38	ka	247.242		
Purata i m	TR2	134.201		
8.3700	Purata Ufuk	66.533		
	Purata TR	314.201		

DELETE Previous

OK

Info Observation Compute Origin Deleted Sun Obs

Set 1

Dek.w tilik : 23.1933 Purata TR : 314.2010

Garis Lint. : 5.1657 TR : 314.2122

Stesen U : sebenar

Tikaian Laras : 21.1400 Aras +/- : 0.0000

Az Mthr dikira : 67.0004 Tirusan : -0.0048

Purata Ufuk : 66.5852 Bg.Grid TR : 314.2033

Sel=Az-Tilik : 0.0112

Purata Bg. Genid : 314.2030

Next Previous

OK Cancel Apply

FIELD DATA BOOKING IN CONVENTIONAL FIELD BOOK

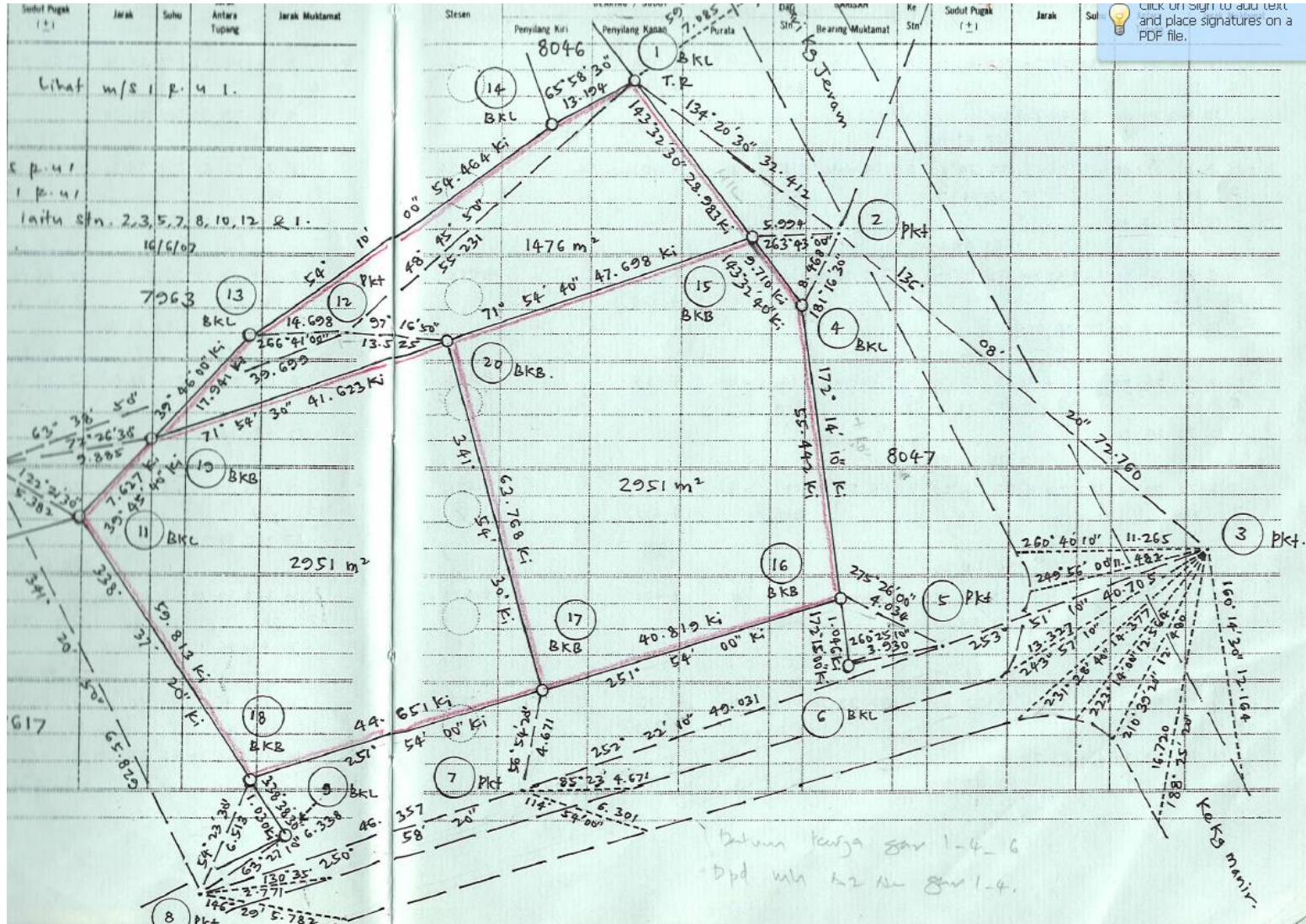
1

No. Fail _____ Rajah di muka _____

Stesen	BEARING / SUDUT			Dari Stn.	GARISAN - Bearing Mutamat	Ke Stn.	Sudut Pukak (±)	Jarak	Suhu 16/6/2007	Jarak Antara Tumpang	Jarak Mutamat
	Penyilang Kiri	Penyilang Kanan	Purela								
Datum Daripada Matyhavi			314 20 30	2	314 20 30	1	90 07 10	32.412			32.412
				Pkt		BKL	269 52 45	(32.412)			
1	314 20 30	134 20 30	136 08 20	2	136 08 20	3	- H -	72.760			72.760
2	Pkt		C - 03			Pkt		(72.760)			
3	136 08 20	316 08 20									
			136 08 17								
1	314 20 30	134 20 30	181 16 30	2	181 16 30	4	- H -	8.468			8.468
2	Pkt					BKL		(8.468)			
4	181 16 30	1 16 30									
			181 16 30								
2	316 08 20	136 08 20	253 51 15	3	253 51 10	5	- H -	40.705			40.705
3	Pkt		C - 06			Pkt		(40.705)			
5	253 51 15	73 51 15									
			253 51 09								
3	73 51 15	253 51 15	260 25 15	5	260 25 10	6	- H -	3.930			3.930
5	Pkt		M - 06			BKL		(3.930)			
6	260 25 10	80 25 20									
			260 25 09								
3	72 51 15	253 51 15	252 22 20	5	252 22 10	7	- H -	49.031			49.031
5	Pkt		C - 05			Pkt		(49.031)			
7	252 22 20	72 22 20									
			252 22 11								
5	72 22 20	252 22 20	250 58 35	7	250 58 20	8	- H -	46.357			46.357
7	Pkt		C - 13			Pkt		(46.357)			
8	250 58 35	70 58 35									
			250 58 22								



TRAVERSE OR LOT SKETCH IN CONVENTIONAL FIELD BOOK



FIELD DATA ENTRY, FIELD BOOK & SKETCH IN ITOOLS

Field Book & Sketch will be auto generated

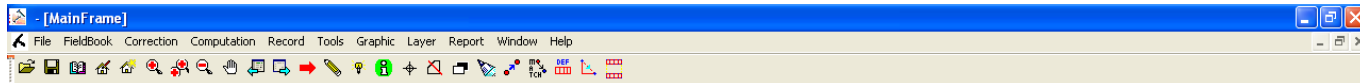
The screenshot displays the ITOOLS software interface, which is used for field data entry, field book generation, and sketching. The interface is divided into several windows:

- MainFrame:** The main window for data entry. It features a menu bar (File, FieldBook, Correction, Computation, Record, Tools, Graphic) and a toolbar. Below the toolbar is a data table with columns for 'PENYILANG KIRI', 'PENYILANG KANAN', and 'PURATA'. The table contains data for two points (2 and 5) and a 'Pkt' (Point) column. Below the table are buttons for 'DFT', 'Semakan Harian', 'Datum', 'Traverse', 'Cls Statement', 'Chk Ang/Dist', and 'Check Angle'.
- Field Book:** A window showing the generated field book. It includes a search bar and a 'Show Deleted Lines' checkbox. The field book content is as follows:


```

      Differential Field Test      A      B      H      32.412  32.412
                                   ( 32.412)
                                   -----
                                   16-06-2007
      C      pkt atas garisan A-B      C      A      H      15.312  15.312
                                   ( 15.312)
                                   -----
      Lihat ruangan atas          C      B      H      17.100  17.100
                                   ( 17.100)
                                   A      A      15.312
                                   B      B      32.412 Jum
      Datum Dari Matahari      314°20'30  2      314°20'30  1      88°13'50  32.427  32.412
                                   Pkt      BKL      271°46'10 ( 32.427)
                                   -----
                                   314°20'30
                                   -----
                                   16-06-2007
      1      314°20'30  134°20'30  136°08'20  2      136°08'20  3      88°25'02  72.788  72.760
      2      Pkt      C1- 0°00'03
      3      136°08'24  316°08'16      136°08'17
                                   -----
      1      314°20'30  134°20'30  181°16'30  2      181°16'30  4      90°23'15  8.468  8.468
      2      Pkt      4      BKL      269°37'01 ( 8.468)
      4      181°16'31  1°16'28      181°16'30
                                   -----
      2      316°08'20  136°08'20  253°51'16  3      253°51'10  5      88°57'09  40.712  40.705
      3      Pkt      C1- 0°00'06
      5      253°51'19  73°51'11      253°51'09
      
```
- Field Sketch:** A window showing a field sketch. It displays a network of points connected by lines, with points labeled with numbers (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20). The sketch shows a complex polygonal shape with internal lines connecting various points.

SKETCH DIGITAL ASCII IN ITOOLS



Blue Number is New Stone

Red line is Traverse

Red Number is for Number LOT

Green line is LOT

Dash line is for Refixation

Black Number is PO Stone



DEFINITION & COMPUTATION

1. Coordinate
 - Min with 3 fix coordinate from NDCDB Coordinate (need to check in J2U website)
2. Traverse
 - To Compute Traverse Misclosure by definition (Loop Close / Open Traverse)
 - To Compute Accuracy for Fix point to Fix point
 - To bring over the Coordinate
3. Lot
 - To define Lot Boundaries
 - To Compute Lot Misclosure & Area
4. Direct Line (Missing Line)
 - Can Auto search after Lot Definition
5. Connection Line (if Any)
6. Area Comparison (Precomp vs Surveyed) – after import PU ASCII (Precomp ASCII)



Fixed Coordinates

Station: 1 Marker: BKL Stone: X (T/B): 16132.060 Y (U/S): 37200.519 Search Save

NEW Fixed

Stn	Marker	Stone No.	X (T/B)	Y (U/S)	AdjX (T/B)	AdjY (U/S)	Diff (T/B)	Diff (U/S)
1	BKL		16132.060	37200.519				
2	Pkt		0.000	0.000				
3	Pkt		0.000	0.000				
4	BKL		16155.054	37200.519				
5	Pkt		0.000	0.000				
6	BKL		0.000	0.000				
7	Pkt		0.000	0.000				
8	Pkt		0.000	0.000				
9	BKL		16081.673	37200.519				
10	Pkt		0.000	0.000				
12	Pkt		0.000	0.000				
1001	BKL		16155.054	37200.519				
1002	BKL		0.000	0.000				
1003	BKL		16081.673	37200.519				
1004	BKL		0.000	0.000				
1005	BKL		0.000	0.000				

View GPS Multi Change Reset All

Define Trav Route

Trav ID: 5 Stn: Enter

List

- 1 : 1,2,3,5,7,9
- 2 : 1,2,3,5,6
- 3 : 6,5,7,8,9
- 4 : 9,8,10,12

Define Lot

Lot No: 1 Island Lot

Stn:

11,19,20,17,18,11

List

- 1 : 11,19,20,17,18,11
- 2 : 19,13,14,1,15,20
- 3 : 20,15,4,16,17,20

Direct Line Definition

Auto Search Manual Define

From Stn: 11 Route: 1A Done

To Stn: 19 Stn: Clear

11,10,19

Next Search

List

- 1A : 11,10,19
- 2A : 19,10,12,20
- 3A : 20,12,10,8,7,17
- 4A : 17,7,8,18
- 5A : 18,8,10,11
- 6A : 19,10,12,13
- 7A : 13,12,1,14
- 8A : 1,2,15
- 9A : 15,2,1,12,20

Auto Del Del All Exit

COMPUTATION

Computation

Traverse Lot
 Direct Ln Conn Line
 Mean Line SKL Lot
 Coord. SKL Area

Reset Coord
Del Comp Ln
Compute

Computation

Traverse Lot
 Direct Ln Conn Line
 Mean Line SKL Lot
 Coord. SKL Area

Reset Coord
Del Comp Ln
Compute

Computation

Traverse Lot All
 Direct Ln Conn Line
 Mean Line SKL Lot
 Coord. SKL Area

Reset Coord
Del Comp Ln
Compute

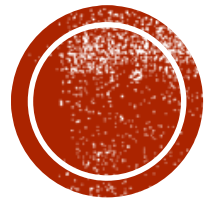
T 1
 Latit
 Tikai
 T 2
 Latit
 Tikai
 T 3
 Latit
 Tikai
 T 4
 Latit
 Tikai
 Trave
 Total
 <
 LM=L.

1A : 11,1
 Brg : 39.
 2A : 19,1
 Brg : 71.
 3A : 20,1
 Brg : 161
 4A : 17,7
 Brg : 251
 5A : 18,8
 Brg : 338
 6A : 19,1
 <
 LM=L. Misc

1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13 BKL 16
 14 BKL 16
 15 BKB 16149.284 37177.207 COMPUTED
 16 BKB 16162.544 37114.463 COMPUTED
 <
 LM=L. Misc TD=Total Dist L=Lat

TRAVERSE MISCLOSE
 T 1 : 1,2,3,5,7,8,10,12,1
 Latit : 0.000 Depat : -0.002
 Tikaian Lurus: 1:264365 Jumlah Jarak: 402.024m - PASSED
 T 2 : 1,2,3,5,6
 Latit : 0.000 Depat : 0.000
 Tikaian Lurus: 1:0 Jumlah Jarak: 149.807m - Tiada Tikaian
 T 3 : 6,5,7,8,9
 Latit : -0.010 Depat : 0.003
 Tikaian Lurus: 1:9888 Jumlah Jarak: 105.656m - PASSED
 T 4 : 9,8,10,12,1
 Latit : 0.010 Depat : -0.004
 Tikaian Lurus: 1:14975 Jumlah Jarak: 167.097m - PASSED
 DIRECT LINE
 1A : 11,10,19
 <
 LM=L. Misc TD=Total Dist L=Lat





BASELINE & REFIXATION



PO LINE ENTRY & MATCH PO & NEW

AtStn	ToStn	Bearing	Distance	Plan No.	ApDate	Unit	Class	Type	Dup	UPI	Total:
1001	1002	172.1400	56.490	059004	19871228	M	2	4	1	110405000796	7
1002	1003	251.5430	85.220	059004	19871228	M	2	4			
1003	1004	338.3700	60.830	059004	19871228	M	2	4			
1004	1005	39.4530	25.560	059004	19871228	M	2	4			
1005	1006	54.0930	54.450	059004	19871228	M	2	4			
1006	1007	65.5800	13.190	059004	19871228	M	2	4			
1007	1001	143.3230	38.690	059004	19871228	M	2	4			

Bearing	Distance	Plan No.	ApDate	Unit	Class	Type	UPI
172.1400	56.490	059004	19871228	M	2	4	1104...

PO Brg/Dist
 AtStn: ToStn:
 Brg: Dist:
 Boundary Line Connection Line

Additional Information
 App Date: Plan No.: Class:
 UPI
 Negeri: Seksyen:
 Daerah: Lot:
 Mukim: UPI No.:

Match PO and New Stn

PO Stn	New Stn	SKL Stn
1001	19	
1002	2	
1003	20	
1004	3	
1005	4	
1006	5	
1007	6	
	7	
	8	
	9	

PO and SKL
 --

Existing Matches:



PO & NEW COMPARISON, PO ADJUSTMENT AND REFIXATION

The screenshot displays a surveying software interface with a field sketch on the left and two dialog boxes in the foreground.

Field Sketch: A diagram showing a polygon with vertices labeled 1003, 1004, 1005, 1006, 1007, 1001, and 1002. Lines are color-coded: red for existing lines and blue for new lines. A 'PO' (Point of Observation) is marked at vertex 1003.

Base Refixation Dialog:

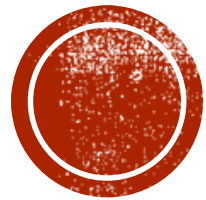
- New Lines:** AtStn 9, ToStn 1. List: 9,8,10,12,1.
- PO Lines:** AtStn 1003, ToStn 1007. List: 1003,1004,1005,1006,1007.
- Table:**

	Bearing	Distance	re-compute
New	203.5530	124.242	re-compute
PO	203.5500	124.211	Clear
- DB:** 0.0030, **DD:** 0.031, **DC:** 0.005 /20m, **DP:** 0.036
- Log PO / New:** Radio buttons for Good, Accept, Out.
- Log:**
 - 1-4 Good -0.0000, 0.002m, TD= 38.692 C= 0.001/20m, D= 0.002m, [New R]
 - 4-9 Good -0.0010, 0.011m, TD= 110.371 C= 0.002/20m, D= 0.012m, [New F]
 - 9-1 Good -0.0000, 0.013m, TD= 124.242 C= 0.002/20m, D= 0.013m, [New F]
- Base:**
 - 1 - 4 (1007 - 1001) | -0.0000, 0.002m, 0.001/20m, D= 0.002m
 - 4 - 9 (1001 - 1003) | -0.0010, 0.011m, 0.002/20m, D= 0.012m
 - 9 - 1 (1003 - 1007) | 0.0030, 0.031m, 0.005/20m, D= 0.036m

Setting Out Dialog:

- At:** 10, **To:** 1004. List: 10,8,9,1004.
- Use Adjusted PO:** re-compute
- Back Stn:** Find Bck Bg
- Back Brg:** 243.3851 Set Brg
- Table:**

	Bearing	Distance
Computed	122.2010	5.383
Reading		
Difference		
- Status:**
 - (10-1004) 122.2010, 5.383m [Route: 10,8,9,1004]
 - (1-1006) 245.5830, 13.193m [Route: 1,1006]
 - (12-1005) 236.2740, 67.432m [Route: 1,1006,1005]



BOOK KEEPING



BOOKKEEPING

Edit FieldBook...

Line	Brg	Dist	Type	Time	Date	Status	Seq
2-1	314°20'30	32.412	DATUM	08:56:05	16/06/2007		1
2-3	136°08'17	72.760	TRAV	09:11:01	16/06/2007		2
2-4	181°16'30	8.468	TRAV	09:20:38	16/06/2007		3
3-5	253°51'09	40.705	TRAV	09:35:09	16/06/2007		4
5-6	260°25'04	3.930	TRAV	09:45:44	16/06/2007		5
5-7	252°22'11	49.031	TRAV	09:55:42	16/06/2007		6
7-8	250°58'22	46.357	TRAV	10:05:37	16/06/2007		7
8-9	63°27'17	6.338	TRAV	10:15:33	16/06/2007		8
8-10	341°20'49	65.829	TRAV	10:27:10	16/06/2007		9

16-Jun-07

9:11:01 AM

-

13

		PENYILANG	PENYILANG			BERING		SUDUT		JARAK
		KIRI	KANAN	PURATA	DARI	MUKTAMAD	KE	ZENITH	JARAK	MUKTAMAD
	1	314.2030	134.2030	136.0820	2	136.0820	3	88.2502	72.788	72.760
2	Pkt			C-0.0003	Pkt		Pkt	271.3458	72.788	
	3	136.0824	316.0816							
				136.0817						
									<input type="checkbox"/> Refer Trav	
									<input type="checkbox"/> efix/PickU	

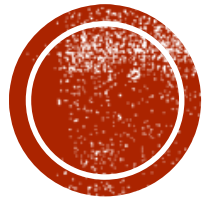
DFT Semakan Harian Datum Traverse Prod Line Prod Line SP Online Deduced Ln Brg Cls

Cls Statement Chk Ang/Dist Check Angle Check Dist. Offset TT Mark Mean Line Party Wall

muka surat: 5

Stesen	Penyilang Kiri	Penyilang Kanan	Purata	Dari	Bering Muktamad	Ke	Sudut Zenith	Jarak	Jarak Muktamad
12	0°01'00		8°47'39	10	(Semak)	19	91°32'35	9.889	9.885
10			63°38'51				(9.889)		
19	8°48'39		72°26'30						





EXPORT / OUTPUT / REPORTING



REPORT: FIELD BOOK & SUN OBSERVATION

Microsoft Word - PUBLT7964_2007.doc [Compatibility Mode]

No Fail: PUBLT7964_2007 Muka Surat : 2

Stesen	Penyilang Kiri	Penyilang Kanan	Purata	Dari	Bering Muktamad	Ke	Sudut Pugak	Ja
Differential Field Test			A	B		H		32.
								(32.
C	pkt atas garisan A-B		C	A		H		15.
								(15.
Lihat ruangan atas			C	B		H		17.
			C	A				(17.
			A	B				
Datum Dari Matahari			314°20'30	2 Pkt	314°20'30	1 BKL	88°13'50	32.
			314°20'30				271°46'10	(32.
1 Pkt	314°20'30	134°20'30	136°08'20	2	136°08'20	3	88°25'02	72.
2 Pkt	136°08'24	216°08'16	C1- 0°00'03				271°34'58	(72.
			136°08'17					
1 Pkt	314°20'30	134°20'30	181°16'30	2	181°16'30	4 BKL	90°23'15	8.
2 Pkt	181°16'31	1°16'28					269°27'01	(8.
			181°16'30					
2 Pkt	316°08'20	136°08'20	253°51'15	3	253°51'10	5	88°57'09	40.
3 Pkt	253°51'19	73°51'11	C1- 0°00'06				271°02'51	(40.
			253°51'09					

Page: 2 of 6 Words: 834 English (U.S.) 80%

Microsoft Word - PUBLT7964_2007-2_1.doc [Compatibility Mode]

CERAPAN MATAHARI BAGI AZIMUT

Penilik ADAM ROSLI Hari Sabtu Tarikh 16 Bulan JUN Tahun 2007

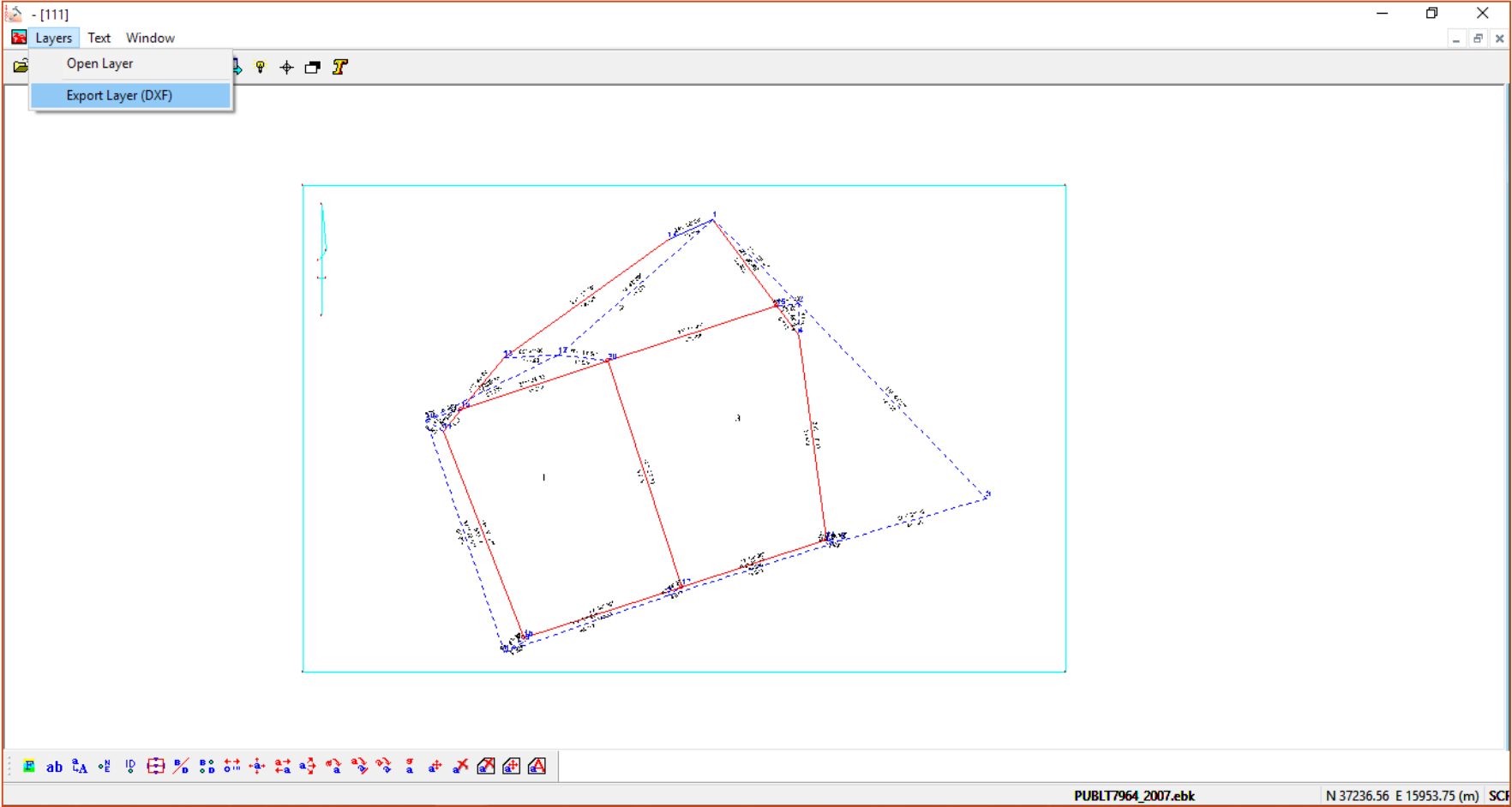
Stesen 2 T.R. 1 B.K. 1 Ms. Siri Alat Bah. Aras Ufuk = a

Nejeri TRENGGANU

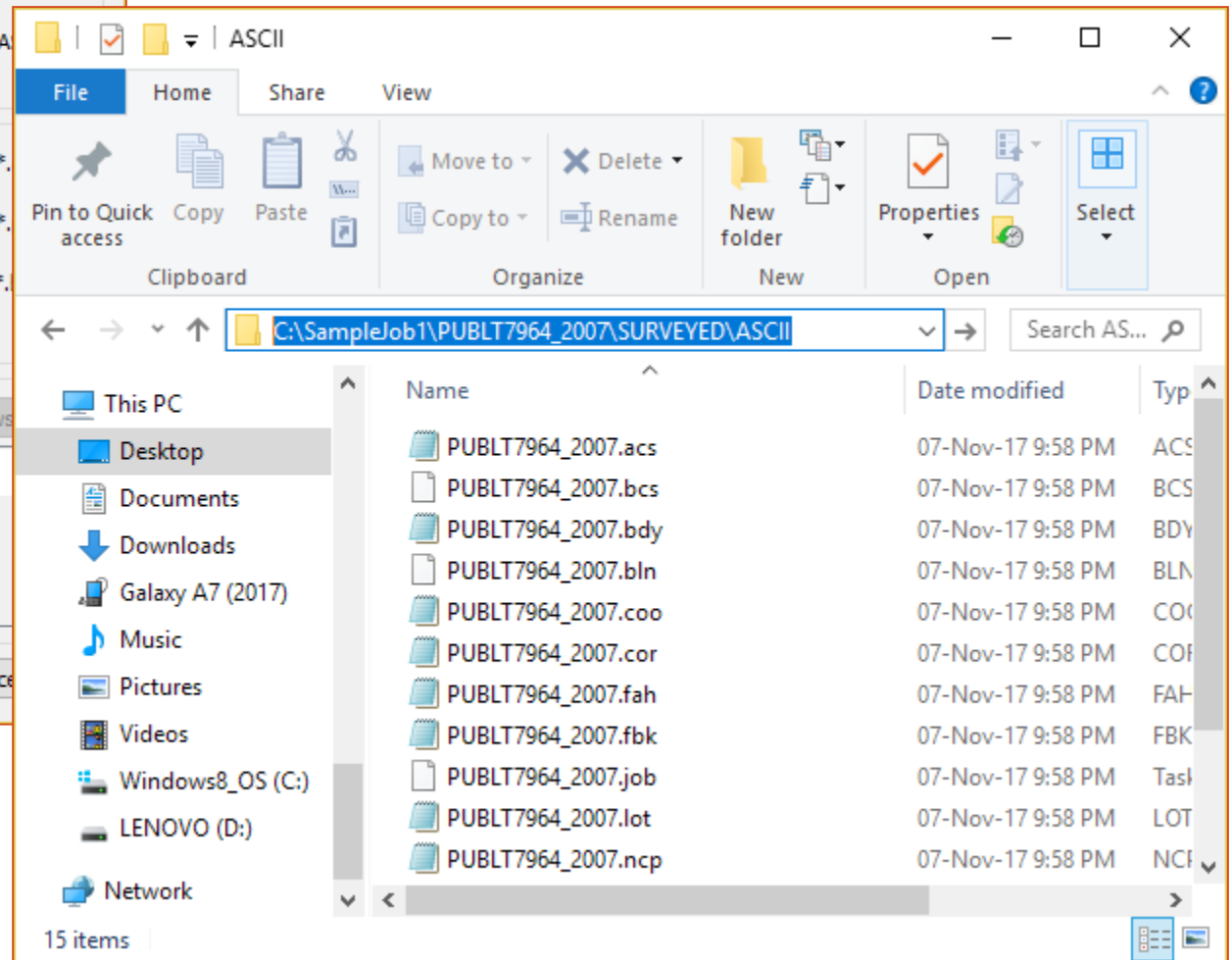
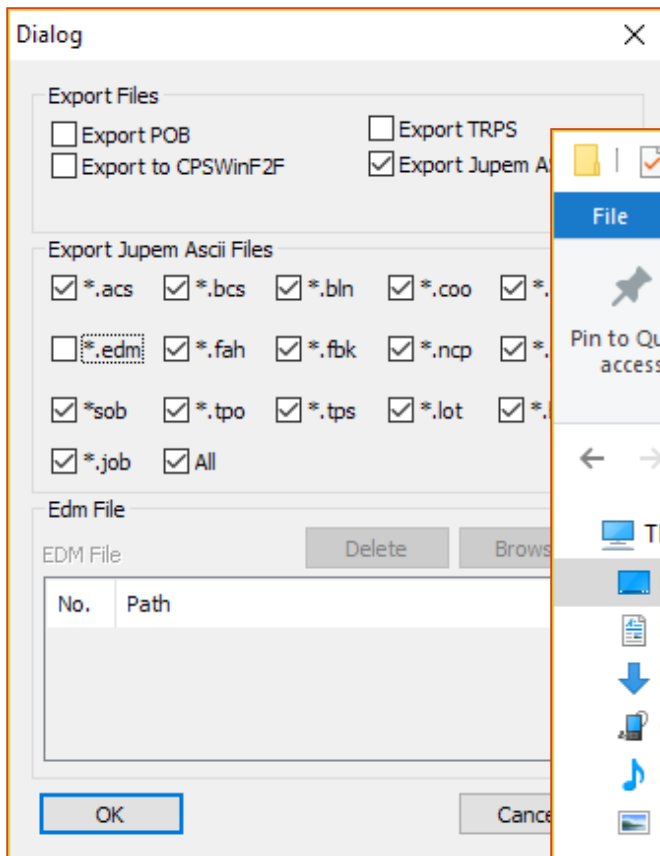
Set 1				Set 2			
Waktu	Mengufuk (ddd.mmas)	Gelembung	Pugak	Waktu	Mengufuk (ddd.mmas)	Gelembung	Pugak
j.mmas	TR	Ki	Ka	j.mmas	TR	Ki	Ka
08.3000	P.Ki +0	67.1522	0	0	08.3500	P.Ki +0	67.5140
08.3100	+0	66.4006	0	0	08.3600	+0	67.3740
08.3200	P.Ka +0	246.4036	0	0	08.3700	P.Ka +0	246.4110
08.3300	0	247.1924	0	0	08.3800	0	247.2429
	T.R.	134.2010			T.R.	134.2010	
Purata Waktu -8.00	0.3200	Purata Altitud(H)	21.1607	Purata Waktu -8.00	0.3700	Purata Altitud(H)	22.3133
Purata Mengufuk ke Matahari	66.5852	Biasan & Besalihat	0.0207	Purata Mengufuk ke Matahari	66.5339	Biasan & Besalihat	0.0159
Purata T.R.	314.2010	Altitud Di laras	21.1400	Purata T.R.	314.2010	Altitud Di laras	22.2934
Koordinat Origin U/S			0.00m	Koordinat Origin T/B			0.00m
Stesen U/S			37177.34m	Stesen T/B			16155.95m
Jum/Sel U/S			37177.34m	Jum/Sel T/B			16155.95m
Jum/Selx0.03256			0.2010	Jum/Selx0.03246			0.0844
G.Lintang Origin U			4.5646	Sel.G. Bujur x Sain G.Lintang			-0.0048
G.Lintang Stesen U			5.1657	T(-)/B(+) Tirusan			-0.0048
Sudutistiwa pada waktu Penilikan			23.1939	Sudutistiwa pada waktu Penilikan			23.1939
Azimut matahari yang dikira			67.0004	Azimut matahari yang dikira			66.5445
Tanda Rujuk sebenar (Purata TR + As - Purata Ke Matahari)			314.2122	Tanda Rujuk sebenar (Purata TR + As - Purata Ke Matahari)			314.2116
Aras			0.0000	Aras			0.0000
Tirusan			-0.0048	Tirusan			-0.0048
Bearing grid TR			314.2033	Bearing grid TR			314.2027
Purata Bearing Grid ke Tanda Rujuk				Purata Bearing Grid ke Tanda Rujuk			314.2030

Page: 1 of 1 Words: 457 English (U.S.) 80%

EXPORT FIELD SKETCH TO DXF



EXPORT ASCII



16 ASCII

JTB hendaklah menghantar format data berdigit dalam bentuk ASCII yang terdiri daripada:

- i. **.fbk** – Field Observation Data
 - ii. **.cor** – Corrections
 - iii. **.sob** – Solar Observation Data
 - iv. **.bcs** – Bearing Close Statement
 - v. **.acs** – Area Comparison
 - vi. **.ncp** – Deduced Field Data
 - vii. **.tps** – Traverses
 - viii. **.lot** – Lot Details
 - ix. **.bdy** – Bearing, Distance & Coordinates
 - x. **.job** – Job Details
 - xi. **.edm** – EDM Test
 - xii. **.fah** – Fahasat
 - xiii. **.coo** – Coordinates Information
 - xiv. **.bln** – Base Line
 - xv. **.tpo** - Topography
 - xvi. **.po** - Old Value
- Serta;
 - i. **.xml** - Digital Signature



*.EDM (EDM Test)

JE_2020_3_2455.EDM - Notepad

File Edit Format View Help

GZ 3345/TOPCON ES105	01691120085551	PERMASJAYAEDM	1 2 5.003	5.002	-0
GZ 3345/TOPCON ES105	01691120085551	PERMASJAYAEDM	1 3 10.001	9.999	-0
GZ 3345/TOPCON ES105	01691120085551	PERMASJAYAEDM	1 4 49.001	49.001	0.
GZ 3345/TOPCON ES105	01691120085551	PERMASJAYAEDM	1 5 87.000	86.998	-0
GZ 3345/TOPCON ES105	01691120085551	PERMASJAYAEDM	1 6 124.995	124.993	-0
GZ 3345/TOPCON ES105	01691120085551	PERMASJAYAEDM	1 7 162.990	162.989	-0
GZ 3345/TOPCON ES105	01691120085551	PERMASJAYAEDM	1 8 200.995	200.994	-0
GZ 3345/TOPCON ES105	01691120085551	PERMASJAYAEDM	1 9 251.001	251.002	0.
GZ 3345/TOPCON ES105	01691120085551	PERMASJAYAEDM	1 10300.015	300.013	-0
GZ 3345/TOPCON ES105	01691120085551	PERMASJAYAEDM	2 3 4.998	4.999	0.
GZ 3345/TOPCON ES105	01691120085551	PERMASJAYAEDM	2 4 43.998	43.997	-0
GZ 3345/TOPCON ES105	01691120085551	PERMASJAYAEDM	2 5 81.997	81.996	-0
GZ 3345/TOPCON ES105	01691120085551	PERMASJAYAEDM	2 6 119.992	119.991	-0
GZ 3345/TOPCON ES105	01691120085551	PERMASJAYAEDM	2 7 157.988	157.988	0.
GZ 3345/TOPCON ES105	01691120085551	PERMASJAYAEDM	2 8 195.992	195.990	-0
GZ 3345/TOPCON ES105	01691120085551	PERMASJAYAEDM	2 9 245.998	245.997	-0
GZ 3345/TOPCON ES105	01691120085551	PERMASJAYAEDM	2 10295.012	295.008	-0

Ln 1, Col 1

100%

Windows (CRLF)

UTF-8



System tray area showing weather (32°C Mostly sunny), time (1:04 PM), date (18/10/2021), and notification icons.



*.ACS (Area Comparison)

PUBLJ601_2021.ACS - Notepad

File Edit Format View Help

PUBLJ	601_2021	01024000049822	6203.0	6203.0	6203.067	0.00	55772
PUBLJ	601_2021	01024000049823	6203.0	6203.0	6203.212	0.00	133616

Ln 1, Col 1 100% Windows (CRLF) UTF-8

Windows taskbar showing icons for Start, Search, File Explorer, Mail, Edge, Firefox, and other applications. System tray includes weather (32°C Mostly sunny), network, volume, and date/time (1:05 PM 18/10/2021).



*.BCS (Bearing Close Statement)

PUBLJ601_2021.BCS - Notepad

File Edit Format View Help

```
PUBLJ      601_2021      11      Pkt      1      Pkt      2      Pkt      181.5954181.59500.0004  9  1  -0.0000
```

Ln 1, Col 1 100% Windows (CRLF) UTF-8

Windows taskbar showing icons for Start, Search, File Explorer, Mail, Edge, Firefox, Paint, Word, PowerPoint, and Teams. System tray includes weather (32°C Mostly sunny), network, volume, and battery indicators. Date and time: 1:06 PM 18/10/2021.



*.BDY (Bearing, Distance & Coordinates)

PUBLJ601_2021.BDY - Notepad

File Edit Format View Help

01024000049822	pkL	9	20985.358	-61290.452	P112.4330	52.941	M	BKL	12	21034.191	-61310.904	P11 0	0
01024000049822	BKL	12	21034.191	-61310.904	P92.1210	38.219	M	pkL	13	21072.385	-61312.378	P11 0	0
01024000049822	pkL	13	21072.385	-61312.378	P136.5040	6.506	M	BKB	14	21076.831	-61317.119	P11 0	0
01024000049822	BKB	14	21076.831	-61317.119	P181.2940	54.956	M	pkB	18	21075.399	-61372.057	P11 0	0
01024000049822	pkB	18	21075.399	-61372.057	P272.2310	99.458	M	BKB	17	20976.029	-61367.919	P11 0	0
01024000049822	BKB	17	20976.029	-61367.919	P6.5200	78.027	M	pkL	9	20985.358	-61290.452	P11 0	0
01024000049823	pkB	18	21075.399	-61372.057	P181.2930	60.643	M	pkB	15	21073.821	-61432.680	P11 0	0
01024000049823	pkB	15	21073.821	-61432.680	P272.2310	105.152	M	BKB	16	20968.761	-61428.302	P11 0	0
01024000049823	BKB	16	20968.761	-61428.302	P6.5150	60.819	M	BKB	17	20976.029	-61367.919	P11 0	0
01024000049823	BKB	17	20976.029	-61367.919	P92.2310	99.458	M	pkB	18	21075.399	-61372.057	P11 0	0

Ln 1, Col 1

100%

Windows (CRLF)

UTF-8

Windows taskbar showing icons for Start, Search, File Explorer, Mail, Edge, Firefox, Chrome, Word, PowerPoint, and other background applications. System tray includes weather (32°C Mostly sunny), network, volume, and date/time (1:07 PM 18/10/2021).



*.BLN (Base Line)

PUBLJ601_2021.BLN - Notepad

File Edit Format View Help

PUBLJ	601_2021	7	8	9	1	1	New12
PUBLJ	601_2021	7	8	10	1	2	New12
PUBLJ	601_2021	8	10	11	1	3	New12
PUBLJ	601_2021	10	11	1	1	4	New12
PUBLJ	601_2021	2	1	13	1	5	New12
PUBLJ	601_2021		9	12	2	1	PO 26
PUBLJ	601_2021		12	13	2	2	PO 26
PUBLJ	601_2021	2	1	13	3	1	New12
PUBLJ	601_2021		1	2	3	2	New11
PUBLJ	601_2021	1	2	4	3	3	New12
PUBLJ	601_2021	2	4	15	3	4	New12
PUBLJ	601_2021		13	14	4	1	PO 26
PUBLJ	601_2021		14	15	4	2	PO 26
PUBLJ	601_2021	2	4	15	5	1	New12
PUBLJ	601_2021	2	4	5	5	2	New12
PUBLJ	601_2021	4	5	6	5	3	New12
PUBLJ	601_2021	5	6	7	5	4	New12
PUBLJ	601_2021	6	7	8	5	5	New12
PUBLJ	601_2021	7	8	9	5	6	New12
PUBLJ	601_2021		15	16	6	1	PO 26
PUBLJ	601_2021		16	9	6	2	PO 26

Ln 1, Col 1 100% Windows (CRLF) UTF-8

Windows taskbar with icons for Start, Search, File Explorer, Mail, Edge, Firefox, and other applications. System tray shows weather (32°C Mostly sunny), time (1:08 PM), and date (18/10/2021).



*.COO (Coordinates Information)

PUBLJ601_2021.COO - Notepad

File Edit Format View Help

PUBLJ	601_2021	4	Pkt	-61430.016	21078.772	4	
PUBLJ	601_2021	3	BKL	-61310.493	21096.383	4	
PUBLJ	601_2021	2	Pkt	-61379.555	21091.707	4	
PUBLJ	601_2021	1	Pkt	-61311.395	21094.083	4	
PUBLJ	601_2021	12	BKL	-61310.904	21034.191	9	!
PUBLJ	601_2021	13	pkL	-61312.378	21072.385	9	!
PUBLJ	601_2021	10	Pkt	-61310.792	21029.337	4	
PUBLJ	601_2021	11	Pkt	-61314.191	21061.547	4	
PUBLJ	601_2021	16	BKB	-61428.302	20968.761	4	
PUBLJ	601_2021	17	BKB	-61367.919	20976.029	4	
PUBLJ	601_2021	14	BKB	-61317.119	21076.831	4	
PUBLJ	601_2021	9	pkL	-61290.452	20985.358	9	!
PUBLJ	601_2021	15	pkB	-61432.680	21073.821	4	
PUBLJ	601_2021	8	Pkt	-61294.111	20987.317	4	
PUBLJ	601_2021	7	Pkt	-61370.285	20979.437	4	
PUBLJ	601_2021	6	Pkt	-61419.420	20972.288	4	
PUBLJ	601_2021	18	pkB	-61372.057	21075.399	4	
PUBLJ	601_2021	5	Pkt	-61372.853	21014.870	4	

Ln 1, Col 1

100%

Windows (CRLF)

UTF-8



*.COR (Corrections)

PUBLJ601_2021.COR - Notepad

File Edit Format View Help

PUBLJ	601_2021		1	2	2	-0.000555556	1	M 1	11
PUBLJ	601_2021	2	1	3	2	-0.000555556	1	M 1	12
PUBLJ	601_2021	1	2	4	2	-0.000555556	1	M 1	12
PUBLJ	601_2021	1	2	4	1	-0.000123457	1	C 2	12
PUBLJ	601_2021	2	4	5	2	-0.000555556	1	M 1	12
PUBLJ	601_2021	2	4	5	1	-0.000123457	2	C 2	12
PUBLJ	601_2021	4	5	6	2	-0.000555556	1	M 1	12
PUBLJ	601_2021	4	5	6	1	-0.000123457	3	C 2	12
PUBLJ	601_2021	5	6	7	2	-0.000555556	1	M 1	12
PUBLJ	601_2021	5	6	7	1	-0.000123457	4	C 2	12
PUBLJ	601_2021	6	7	8	2	-0.000555556	1	M 1	12
PUBLJ	601_2021	6	7	8	1	-0.000123457	5	C 2	12
PUBLJ	601_2021	7	8	9	2	-0.000555556	1	M 1	12
PUBLJ	601_2021	7	8	9	1	-0.000123457	5	M 2	12
PUBLJ	601_2021	7	8	10	2	-0.000555556	1	M 1	12
PUBLJ	601_2021	7	8	10	1	-0.000123457	6	C 2	12
PUBLJ	601_2021	8	10	11	2	-0.000555556	1	M 1	12
PUBLJ	601_2021	8	10	11	1	-0.000123457	7	C 2	12
PUBLJ	601_2021	10	11	1	2	-0.000555556	1	M 1	12
PUBLJ	601_2021	10	11	1	1	-0.000123457	8	C 2	12
PUBLJ	601_2021	11	1	2	2	-0.000555556	1	M 1	14
PUBLJ	601_2021	11	1	2	1	-0.000123457	9	C 2	14
PUBLJ	601_2021	8	10	12	2	-0.000555556	1	M 1	12
PUBLJ	601_2021	8	10	12	1	-0.000123457	6	M 2	12
PUBLJ	601_2021	2	1	13	2	-0.000555556	1	M 1	12
PUBLJ	601_2021	2	1	14	2	-0.000555556	1	M 1	12
PUBLJ	601_2021	2	4	15	2	-0.000555556	1	M 1	12
PUBLJ	601_2021	2	4	15	1	-0.000123457	1	M 2	12
PUBLJ	601_2021	5	6	16	2	-0.000555556	1	M 1	12
PUBLJ	601_2021	5	6	16	1	-0.000123457	3	M 2	12
PUBLJ	601_2021	6	7	17	2	-0.000555556	1	M 1	12
PUBLJ	601_2021	6	7	17	1	-0.000123457	4	M 2	12
PUBLJ	601_2021	1	2	18	2	-0.000555556	1	M 1	12

Ln 1, Col 1

100%

Windows (CRLF)

UTF-8



*.FAH (Fahrasiat)

PUBLJ601_2021 (1).FAH - Notepad

File Edit Format View Help

```
PUBLJ 601_2021 4 01024000049822 770228015567 2020122220201222GZ3345  
PUBLJ 601_2021 4 01024000049823 770228015567 2020122220201222GZ3345
```

Ln 1, Col 1 100% Windows (CRLF) UTF-8

Windows taskbar with icons for Start, Search, File Explorer, Mail, Photos, Edge, Firefox, Paint, Word, PowerPoint, and Teams. System tray shows weather (32°C Mostly sunny), network, microphone, speaker, battery, and system clock (1:10 PM 18/10/2021).



*.FBK (Field Observation Data)

PUBLJ601_2021.FBK - Notepad

File Edit Format View Help

PUBLJ	601_2021		1	Pkt	2	Pkt			181.59481.5948	181.594889.5745	270.021568.201	68.			
PUBLJ	601_2021		9000	Pkt	9001	Pkt			0.0000	180.00000.0000	90.0000	270.000068.201	68.		
PUBLJ	601_2021		9002	Pkt	9000	Pkt			0.0000	180.00000.0000	90.0000	270.000034.021	34.		
PUBLJ	601_2021		9002	Pkt	9001	Pkt			0.0000	180.00000.0000	90.0000	270.000034.180	34.		
PUBLJ	601_2021		1	Pkt	2	Pkt		0.0000	0.0000	181.59501.5950	181.595089.5745	270.021568.201	68.		
PUBLJ	601_2021	2		Pkt	1	Pkt			181.59501.5950	68.3442	248.344268.3442	90.0000	270.00002.471	2.4	
PUBLJ	601_2021	1		Pkt	2	Pkt			1.5950	181.5950194.223814.2238	194.223890.0000	270.000052.093	52.		
PUBLJ	601_2021	2		Pkt	4	Pkt			14.2238	194.2238311.4853131.4853311.485390.0000	270.000085.739	85.			
PUBLJ	601_2021	4		Pkt	5	Pkt			131.4853311.4853222.263442.2634	222.263490.0000	270.000063.101	63.			
PUBLJ	601_2021	4		Pkt	6	Pkt			42.2634	222.26348.1647	188.16478.1647	90.0000	270.000049.652	49.	
PUBLJ	601_2021	5		Pkt	7	Pkt			188.16478.1647	5.5423	185.54235.5423	90.0000	270.000076.581	76.	
PUBLJ	601_2021	6		Pkt	7	Pkt			185.54235.5423	331.5022151.5022331.502290.0000	270.00004.150	4.1			
PUBLJ	601_2021	7		Pkt	8	Pkt			185.54235.5423	111.3911291.3911111.391190.0000	270.000045.210	45.			
PUBLJ	601_2021	7		Pkt	8	Pkt			291.3911111.391196.0124	276.012496.0124	90.0000	270.000032.389	32.		
PUBLJ	601_2021	8		Pkt	10	Pkt			276.012496.0124	85.0527	265.052785.0527	90.0000	270.000032.655	32.	
PUBLJ	601_2021	10		Pkt	11	Pkt			265.052785.0527	181.59541.5954	181.595490.0000	270.000068.201	68.		
PUBLJ	601_2021	11		Pkt	1	Pkt			291.3911111.391191.1919	271.191991.1919	90.0000	270.00004.854	4.8		
PUBLJ	601_2021	8		Pkt	10	Pkt			181.59501.5950	267.251387.2513	267.251390.0000	270.000021.724	21.		
PUBLJ	601_2021	2		Pkt	1	Pkt			181.59501.5950	251.383871.3838	251.383890.0000	270.000018.177	18.		
PUBLJ	601_2021	2		Pkt	1	Pkt			14.2238	194.2238241.432561.4325	241.432590.0000	270.00005.622	5.6		
PUBLJ	601_2021	2		Pkt	4	Pkt			42.2634	222.2634201.392021.3920	201.392090.0000	270.00009.557	9.5		
PUBLJ	601_2021	5		Pkt	6	Pkt			188.16478.1647	304.4651124.4651304.465190.0000	270.00004.148	4.1			
PUBLJ	601_2021	6		Pkt	7	Pkt			1.5950	181.5950294.4128114.412890.0000	270.000017.949	17.			
PUBLJ	601_2021	1		Pkt	2	Pkt			0.0000	0.0000	112.4330292.4330112.433090.0000	270.000052.941	52.		
PUBLJ	601_2021	9		pkL	12	BKL			0.0000	0.0000	92.1240	272.124092.1240	90.0000	270.000038.222	38.
PUBLJ	601_2021	12		BKL	13	pkL			0.0000	0.0000	136.5040316.5040136.504090.0000	270.00006.506	6.5		
PUBLJ	601_2021	13		pkL	14	BKB			0.0000	0.0000	181.29301.2930	181.293090.0000	270.0000115.599	115	
PUBLJ	601_2021	14		BKB	15	pkB			0.0000	0.0000	272.231092.2310	272.231090.0000	270.0000105.153	105	
PUBLJ	601_2021	15		pkB	16	BKB			0.0000	0.0000	6.5200	186.52006.5200	90.0000	270.0000138.848	138
PUBLJ	601_2021	16		BKB	9	pkL									

Ln 1, Col 1

100%

Windows (CRLF)

UTF-8



System tray area showing system icons (network, volume, battery), weather information (32°C Mostly sunny), and the system clock (1:10 PM 18/10/2021).



*.JOB (Job Details)

PUBLJ601_2021 (1).JOB - Notepad

File Edit Format View Help

PUBLJ601_2021 20201222 20210804 1 1 1 1

Ln 1, Col 1

100%

Windows (CRLF)

UTF-8



System tray area containing icons for help, weather (32°C Mostly sunny), network, microphone, speaker, battery, language (ENG), date and time (1:12 PM 18/10/2021), and notification area (10).



*.LOT (Lot Details)

PUBLJ601_2021.LOT - Notepad

File Edit Format View Help

01024000049822	21036.699	-61328.472	6203.067	M
01024000049823	21023.502	-61400.239	6203.212	M

Ln 1, Col 1

100%

Windows (CRLF)

UTF-8



System tray area showing weather (32°C Mostly sunny), network, volume, and date/time (1:12 PM 18/10/2021).



*.NCP (Deduced Field Data)

PUBLJ601_2021.NCP - Notepad

File Edit Format View Help

6	Pkt	16	BKB	201.3920	9.557	1	12
1	Pkt	13	pkL	267.2510	21.724	1	12
2	Pkt	4	Pkt	194.2240	52.093	1	12
4	Pkt	5	Pkt	311.4850	85.739	1	12
17	BKB	16	BKB	186.5150	60.819	1	16
8	Pkt	10	Pkt	111.3910	45.210	1	12
4	Pkt	15	pkB	241.4320	5.622	1	12
13	pkL	12	BKL	272.1210	38.219	1	16
7	Pkt	17	BKB	304.4650	4.148	1	12
18	pkB	14	BKB	1.2940	54.956	1	16
1	Pkt	3	BKL	68.3440	2.471	1	12
12	BKL	9	pkL	292.4330	52.941	1	16
1	Pkt	14	BKB	251.3840	18.177	1	12
1	Pkt	2	Pkt	181.5950	68.201	1	11
2	Pkt	18	pkB	294.4130	17.949	1	12
11	Pkt	1	Pkt	85.0520	32.655	1	12
16	BKB	15	pkB	92.2310	105.152	1	16
14	BKB	13	pkL	316.5040	6.506	1	16
6	Pkt	7	Pkt	8.1640	49.652	1	12
10	Pkt	11	Pkt	96.0120	32.389	1	12
15	pkB	18	pkB	1.2930	60.643	1	16
9	pkL	17	BKB	186.5200	78.027	1	16
17	BKB	18	pkB	92.2310	99.458	1	16
10	Pkt	12	BKL	91.1910	4.854	1	12
5	Pkt	6	Pkt	222.2630	63.101	1	12
7	Pkt	8	Pkt	5.5420	76.581	1	12
8	Pkt	9	pkL	331.5020	4.150	1	12
9	pkL	12	BKL	112.4330	52.941	1	26
12	BKL	13	pkL	92.1240	38.222	1	26
13	pkL	14	BKB	136.5040	6.506	1	26
14	BKB	15	pkB	181.2930	115.599	1	26
15	pkB	16	BKB	272.2310	105.153	1	26
16	BKB	9	pkL	6.5200	138.848	1	26

Ln 1, Col 1

100%

Windows (CRLF)

UTF-8

Windows taskbar showing icons for Start, Search, File Explorer, Mail, Photos, Edge, Firefox, Chrome, Word, PowerPoint, and other background applications. System tray includes weather (32°C Mostly sunny), network, volume, and date/time (1:13 PM 18/10/2021).



*.PO (Old Value)

PUBLJ601_2021.PO - Notepad

File Edit Format View Help

PUBLJ	601_2021	205110	01024000047621	201206201112.433052.941	M	9
PUBLJ	601_2021	205110	01024000047621	20120620192.1240 38.222	M	12
PUBLJ	601_2021	205110	01024000047621	201206201136.50406.506	M	13
PUBLJ	601_2021	205110	01024000047621	201206201181.2930115.599	M	14
PUBLJ	601_2021	205110	01024000047621	201206201272.2310105.153	M	15
PUBLJ	601_2021	205110	01024000047621	2012062016.5200 138.848	M	16

Ln 1, Col 1

100%

Windows (CRLF)

UTF-8



*.SOB (Solar Observation Data)

PUBLJ601_2021.SOB - Notepad

File Edit Format View Help

PUBLJ	601_2021	1	Pkt	-61311.400	21094.087	2	Pkt	LOW CHEE SENG	GZ3345
PUBLJ	601_2021	1	Pkt	-61311.400	21094.087	2	Pkt	LOW CHEE SENG	GZ3345

Ln 1, Col 1 100% Windows (CRLF) UTF-8

Windows taskbar showing icons for Start, Search, File Explorer, Mail, Edge, Firefox, Paint, Word, PowerPoint, and Notepad. System tray includes weather (32°C Mostly sunny), network, microphone, speaker, battery, and system clock (1:15 PM 18/10/2021).



*.TPO (Topography)

PUBLSEL1066_2020.tpo - Notepad

File Edit Format View Help

PUBLSEL	1066_2020	45	11	46	11	1	1
PUBLSEL	1066_2020	45	11	47	11	1	2
PUBLSEL	1066_2020	45	11	48	11	1	3
PUBLSEL	1066_2020	45	11	49	11	1	4
PUBLSEL	1066_2020	45	11	50	11	1	5
PUBLSEL	1066_2020	45	11	51	11	1	6
PUBLSEL	1066_2020	45	11	52	11	1	7
PUBLSEL	1066_2020	11	14	53	11	1	8
PUBLSEL	1066_2020	11	14	54	11	1	9
PUBLSEL	1066_2020	11	14	55	11	1	10
PUBLSEL	1066_2020	11	14	56	11	1	11
PUBLSEL	1066_2020	11	14	57	11	1	12
PUBLSEL	1066_2020	15	37	58	11	1	13
PUBLSEL	1066_2020	15	37	59	11	1	14
PUBLSEL	1066_2020	15	37	60	11	1	15
PUBLSEL	1066_2020	15	37	61	11	1	16
PUBLSEL	1066_2020	15	37	62	11	1	17
PUBLSEL	1066_2020	15	37	63	11	1	18
PUBLSEL	1066_2020	15	37	64	11	1	19
PUBLSEL	1066_2020	15	37	65	11	1	20
PUBLSEL	1066_2020	16	15	66	11	2	1
PUBLSEL	1066_2020	16	15	67	11	2	2
PUBLSEL	1066_2020	16	15	68	11	2	3
PUBLSEL	1066_2020	16	15	69	11	2	4
PUBLSEL	1066_2020	16	15	70	11	2	5
PUBLSEL	1066_2020	16	15	71	11	2	6
PUBLSEL	1066_2020	16	15	72	11	2	7
PUBLSEL	1066_2020	17	16	73	11	2	8
PUBLSEL	1066_2020	17	16	74	11	2	9
PUBLSEL	1066_2020	17	16	75	11	2	10
PUBLSEL	1066_2020	17	16	76	11	2	11
PUBLSEL	1066_2020	17	16	77	11	2	12
PUBLSEL	1066_2020	17	16	78	11	2	13
PUBLSEL	1066_2020	17	16	79	11	2	14
PUBLSEL	1066_2020	17	16	80	11	2	15
PUBLSEL	1066_2020	16	17	81	11	2	16
PUBLSEL	1066_2020	16	17	82	11	2	17
PUBLSEL	1066_2020	16	17	83	11	2	18
PUBLSEL	1066_2020	16	17	84	11	2	19
PUBLSEL	1066_2020	16	17	85	11	2	20
PUBLSEL	1066_2020	16	17	86	11	2	21
PUBLSEL	1066_2020	16	17	87	11	2	22

Ln 1, Col 1

100%

Windows (CRLF)

UTF-8



*.TPS (Traverses)

PUBLJ601_2021.TPS - Notepad

File Edit Format View Help

```
T,1  
9,8,10,11,1,2,4,5,6,7,8  
END  
L,49822,01,02,40,000,6203.067  
9,12,13,14,18,17,9  
END  
L,49823,01,02,40,000,6203.212  
18,15,16,17,18  
END  
K,12,P  
-61310.904,21034.191,BKL,,M  
END  
K,13,P  
-61312.378,21072.385,pkL,,M  
END  
K,9,P  
-61290.452,20985.358,pkL,,M  
END
```

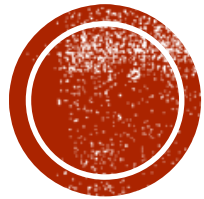
Ln 1, Col 1

100%

Windows (CRLF)

UTF-8

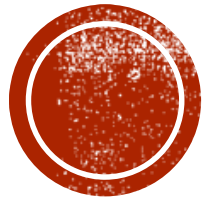




IT TOOLS UPGRADE IN FUTURE

1. Precomp PU ASCII Processing
2. Export StarNet DAT
 - For Least Square Adjustment





ASCII CHECKER (DIFFERENT SOFTWARE)

ASCII CHECKER FOR 16 ASCII

The screenshot displays the 'ASCII Checker' software interface. At the top, there is a menu bar with options: File, Regenerate, Edit, View, Display, Jupem Check Rpt, Help. Below the menu is a toolbar with various icons. A red box highlights a row of buttons: FAH, FBK, COR, SOB, BCS, ACS, COO, EDM, NCP, TPS, TPO, BLN, PO, BDY, LOT, JOB. Below this is a table with columns: FileNo, StrnNo, Type, Serial, North, East, Code, Remarks. The table contains 20 rows of data. To the right of the table is a search area with a 'Search' button and a table with columns 'Strn', 'Row', 'Col'. Below the search area is a 'Description' field. At the bottom of the window, there is a map showing a polygon with vertices labeled with numbers 1 through 20. The status bar at the bottom shows 'Ready', 'CAP', and 'N 37203.02 E 16282.80 (m) SCR'.

FileNo	StrnNo	Type	Serial	North	East	Code	Remarks
1	19	BKB		37149.478	16064.375	4	
2	4	BKL		37169.397	16155.054	9	!
3	3	Pkt		37125.404	16205.657	4	
4	2	Pkt		37177.865	16155.241	4	
5	1	BKL		37200.519	16132.060	9	!
6	12	Pkt		37164.116	16090.525	4	
7	13	BKL		37163.266	16075.852	4	
8	10	Pkt		37146.496	16054.951	4	
9	11	BKL		37143.616	16059.497	4	
10	16	BKB		37114.463	16162.544	4	
11	20	BKB		37162.402	16103.941	4	
12	17	BKB		37101.788	16123.742	4	
13	14	BKL		37195.147	16120.009	4	
14	9	BKL		37086.962	16081.673	9	!
15	15	BKB		37177.212	16149.281	4	
16	8	Pkt		37084.129	16076.003	4	
17	7	Pkt		37099.238	16119.828	4	
18	6	BKL		37113.429	16162.683	4	
19	5	Pkt		37114.084	16166.558	4	
20	18	BKB		37087.921	16081.298	4	

Checker for 16 ASCII File except *.EDM

If have any Error the box Description will detail the error where to fixed it.





DEMO



Thanks 😊