

LAMPIRAN

Lampiran 1

Syntax program

1. Menu Utama

```
Dim i As Integer
Dim HZLV As Integer
Dim e As Boolean
Dim f As Boolean
Dim com As Integer
Dim add As Integer
Dim isConnect As Boolean
Dim HZ As Single
Dim DestFile As String
'GRAPH
Dim graph As Boolean
Dim x1 As Integer
Dim x2 As Integer
Dim y1 As Integer
Dim y2 As Integer
Dim counter1 As Integer
Dim counter2 As Integer
Dim array_x1(210) As Integer
Dim array_y1(210) As Integer
```

2. Sub Program *Pengambilan data Frekuensi.*

```
Private Sub bConnect_Click()
    If isConnect = False Then
        isConnect = True
        enable_setting
        bConnect.Caption = "Disconnect"
        Mb1.Connection = com
        If Mb1.IsConnected = False Then
            e = Mb1.OpenConnection
        End If
    End If
End Sub
```

```

'e = Mb1.ReadHoldingRegisters(1, add, 114, 1, 500)
e = Mb1.ReadHoldingRegisters(1, add, REG.Text, 1, INTERVAL.Text)
Mb1.UpdateEnable (1)
cbCom.Enabled = False
cbAdd.Enabled = False

Else

isConnect = False

disable_Setting

bConnect.Caption = "Connect"

Mb1.Connection = com

If Mb1.IsConnected = True Then

    Mb1.CloseConnection

    cbCom.Enabled = True

    cbAdd.Enabled = True

End If

End If

End Sub

```

- 3. Sub Program menampilkan grafik, tampilan grafik akan berhenti ketika sudah mencapai batas maksimal program dan menampilkan nilai grafik berikutnya.**

```

Private Sub bGraph_Click()
If graph = False Then
    graph = True
    bGraph.Caption = "Stop"
Else
    graph = False
    bGraph.Caption = "Graph"
End If
End Sub

```

4. Sub Program *Perbedaan Warna Grafik*

```
Public Sub graphChar(t As Single)
counter1 = counter1 + 1
x1 = x1 + 60
y1 = 29000 - 48 * t
array_x1(counter1) = x1
array_y1(counter1) = y1
Circle (x1, y1), 10, vbRed
Line (x1, y1 + 25)-(x1, 29000), vbBlue
If counter1 >= 200 Then
Call clearScreen
End If
End Sub
```

5. Sub Program *Tampilan Batas Grafik*

```
Public Sub clearScreen()
Dim i1 As Integer
Dim k1 As Integer
k1 = counter1
For i1 = 0 To k1
x1 = array_x1(i1)
y1 = array_y1(i1)
Circle (x1, y1), 10, vbWhite
Line (x1, y1 + 25)-(x1, 29000), vbWhite
Next
counter1 = 0
x1 = 3420
End Sub
```

6. Sub Program *Tombol Pemilihan ID*

```
Private Sub cbAdd_Click()
add = cbAdd.ListIndex + 1
End Sub
```

7. Sub Program *Tombol Pemilihan COM*

```
Private Sub cbCom_Click()
com = cbCom.ListIndex + 1
bConnect.Enabled = True
End Sub
```

8. Sub Program *inisiasi COM dan ID*

```
Private Sub Form_Load()  
    disable_Setting  
  
    light.BackColor = RGB(255, 0, 0)  
  
    bConnect.Enabled = False  
    Mb1.Visible = False  
  
    Mb1.BaudRate = 5  
    Mb1.DataBits = 1  
    Mb1.Parity = 0  
    Mb1.StopBits = 0  
    Mb1.ProtocolMode = 0  
    Mb1.Timeout = 1000  
  
    Mb1.IPAddr1 = 192  
    Mb1.IPAddr2 = 168  
    Mb1.IPAddr3 = 1  
    Mb1.IPAddr4 = 25  
    Mb1.TCPIPPort = 502  
    Mb1.Timeout = 1000  
  
    For i = 0 To 20  
        cbCom.AddItem ("COM " & i + 1)  
    Next i  
  
    For i = 0 To 247  
        cbAdd.AddItem ("Add " & i + 1)  
    Next i  
  
    isConnect = False  
  
End Sub
```

9. Sub Program *Label 'about'*

```
Private Sub mAbout_Click()  
    MsgBox "Frequency Logger Universitas 17 Agustus Surabaya",  
    vbInformation, "ABDI HZLOG v.451302112"  
End Sub
```

10. Sub Program *Stempel Pewaktuan dan Penyimpanan File Frekuensi*

```
Private Sub Mb1_ResultOk(ByVal handle As Integer)  
    If handle = 1 Then
```

```

light.BackColor = RGB(0, 255, 255)
Label1.Caption = Round(Mb1.Register(1, 0) / 100, 2)
'=====
DestFile = "D:\ABDI TA\LOGGER\" & Format(Date, "dd mmmm yyyy")
& ".csv"
Open DestFile For Append As #1
Print #1, Format(Time, "hh:mm:ss") & "=" & Label1.Caption
Close #1
If Format(Time, "hh:mm:ss") = "00:00:00" Then
DestFile = "D:\ABDI TA\LOGGER\" & Format(Date, "dd mmmm yyyy")
& ".csv"
Open DestFile For Append As #1
Print #1, Format(Time, "hh:mm:ss") & "=" & Label1.Caption
Close #1
End If
'=====
HZ = Round(Mb1.Register(1, 0) / 10, 2)
End If
End Sub

```

11. Sub Program *Pewarnaan konektifitas*

```

Private Sub mb1_resultError(ByVal handle As Integer, ByVal error As
Integer)
If handle = 1 Then
If error = 10 Then
light.BackColor = RGB(255, 0, 0)
End If
End If

End Sub

```

12. Sub Program *Frekuensi Low*

```

Private Sub Timer2_Timer()
Label8.Caption = Label1.Caption
If tHZL.Text > Label8.Caption Then
Label1.ForeColor = RGB(255, 0, 0)
Else
Label1.ForeColor = RGB(0, 0, 255)
End If
End Sub

```

13. Sub Program *Sinkron Grafik dengan nilai Frekuensi*

```

Private Sub Timer1_Timer()
dat.Caption = Date & " | " & Time

```

```
If graph = True Then
    graphChar (HZ)
End If
End Sub
```

14. Sub Program Alarm Jika Frekuensi Melebihi Batas Atas

```
Private Sub Timer3_Timer()
    If tHZH.Text < Label8.Caption Then Beep

End Sub
```

15. Sub Program Alarm Jika Frekuensi Melebihi Batas Bawah

```
Private Sub Timer4_Timer()
    If tHZL.Text > Label8.Caption Then Beep
End Sub
```

16. Sub Program Scrolls Low Frekuensi

```
Private Sub vsHZL_Change()
    tHZL.Text = (vsHZL.Value / 100)
End Sub
```

17. Sub Program Scrolls High Frekuensi

```
Private Sub vsHZH_Change()
    tHZH.Text = (vsHZH.Value / 100)
End Sub
```


21:46:07	49,98	21:46:15	49,96	21:46:23	49,98	21:46:31	49,98
21:46:07	49,98	21:46:15	49,96	21:46:23	49,98	21:46:32	49,98
21:46:07	49,98	21:46:15	49,96	21:46:24	49,98	21:46:32	49,98
21:46:07	49,98	21:46:16	49,96	21:46:24	49,98	21:46:32	49,98
21:46:08	49,98	21:46:16	49,97	21:46:24	49,98	21:46:32	49,98

c. Interval 300ms

JAM	HZ	JAM	HZ	JAM	HZ	JAM	HZ
1:14:00	50,02	1:14:12	50,01	1:14:24	50	1:14:36	50,01
1:14:00	50,02	1:14:12	50,01	1:14:24	50	1:14:37	50,01
1:14:00	50,02	1:14:13	50,01	1:14:25	50	1:14:37	50,01
1:14:01	50,02	1:14:13	50,01	1:14:25	50	1:14:37	50,01
1:14:01	50,02	1:14:13	50,01	1:14:25	50	1:14:38	50,01
1:14:01	50,02	1:14:14	50,01	1:14:26	50	1:14:38	50,01
1:14:02	50,02	1:14:14	50,01	1:14:26	50	1:14:38	50
1:14:02	50,02	1:14:14	50	1:14:26	50	1:14:39	50
1:14:02	50,02	1:14:15	50	1:14:27	50	1:14:39	50
1:14:03	50,02	1:14:15	50	1:14:27	50	1:14:39	50
1:14:03	50,02	1:14:15	50	1:14:27	50	1:14:39	50
1:14:03	50,02	1:14:15	50	1:14:28	50	1:14:40	50
1:14:04	50,02	1:14:16	50	1:14:28	50	1:14:40	50
1:14:04	50,02	1:14:16	50	1:14:28	50,01	1:14:40	50
1:14:04	50,02	1:14:16	50	1:14:29	50,01	1:14:41	50
1:14:05	50,02	1:14:17	50	1:14:29	50,01	1:14:41	50
1:14:05	50,02	1:14:17	50	1:14:29	50,01	1:14:41	50
1:14:05	50,02	1:14:17	50	1:14:29	50,01	1:14:42	50
1:14:05	50,02	1:14:18	50	1:14:30	50,01	1:14:42	50
1:14:06	50,02	1:14:18	50	1:14:30	50,01	1:14:42	50
1:14:06	50,01	1:14:18	50	1:14:30	50,01	1:14:43	50
1:14:06	50,01	1:14:19	50	1:14:31	50,01	1:14:43	50
1:14:07	50,01	1:14:19	50	1:14:31	50,01	1:14:43	50
1:14:07	50,01	1:14:19	50	1:14:31	50,01	1:14:44	50
1:14:07	50,01	1:14:19	50	1:14:32	50,01	1:14:44	50
1:14:08	50,01	1:14:20	50	1:14:32	50,01	1:14:44	50
1:14:08	50,01	1:14:20	50	1:14:32	50,01	1:14:44	50
1:14:08	50,01	1:14:20	50	1:14:33	50,01	1:14:45	50
1:14:09	50,01	1:14:21	50	1:14:33	50,01	1:14:45	50
1:14:09	50,01	1:14:21	50	1:14:33	50,01	1:14:45	50
1:14:09	50,01	1:14:21	50	1:14:34	50,01	1:14:46	50
1:14:10	50,01	1:14:22	50	1:14:34	50,01	1:14:46	50

1:14:10	50,01	1:14:22	50	1:14:34	50,01	1:14:46	50
1:14:10	50,01	1:14:22	50	1:14:34	50,01	1:14:47	50
1:14:10	50,01	1:14:23	50	1:14:35	50,01	1:14:47	50
1:14:11	50,01	1:14:23	50	1:14:35	50,01	1:14:47	49,99
1:14:11	50,01	1:14:23	50	1:14:35	50,01	1:14:48	49,99
1:14:11	50,01	1:14:24	50	1:14:36	50,01	1:14:48	49,99
1:14:12	50,01	1:14:24	50	1:14:36	50,01	1:14:48	49,99

JAM	HZ	JAM	HZ	JAM	HZ	JAM	HZ
1:14:49	49,99	1:15:01	49,97	1:15:13	49,97	1:15:26	49,96
1:14:49	49,99	1:15:01	49,97	1:15:14	49,97	1:15:26	49,96
1:14:49	49,98	1:15:02	49,97	1:15:14	49,97	1:15:27	49,96
1:14:49	49,98	1:15:02	49,97	1:15:14	49,96	1:15:27	49,96
1:14:50	49,98	1:15:02	49,97	1:15:15	49,96	1:15:27	49,95
1:14:50	49,98	1:15:03	49,97	1:15:15	49,96	1:15:28	49,95
1:14:50	49,98	1:15:03	49,97	1:15:15	49,96	1:15:28	49,95
1:14:51	49,98	1:15:03	49,97	1:15:16	49,96	1:15:28	49,95
1:14:51	49,98	1:15:03	49,97	1:15:16	49,96	1:15:28	49,95
1:14:51	49,97	1:15:04	49,97	1:15:16	49,96	1:15:29	49,95
1:14:52	49,97	1:15:04	49,97	1:15:17	49,96	1:15:29	49,95
1:14:52	49,97	1:15:04	49,97	1:15:17	49,96	1:15:29	49,95
1:14:52	49,97	1:15:05	49,97	1:15:17	49,96	1:15:30	49,95
1:14:53	49,97	1:15:05	49,97	1:15:18	49,96	1:15:30	49,95
1:14:53	49,97	1:15:05	49,97	1:15:18	49,96	1:15:30	49,95
1:14:53	49,96	1:15:06	49,97	1:15:18	49,96	1:15:31	49,95
1:14:54	49,96	1:15:06	49,97	1:15:18	49,96	1:15:31	49,95
1:14:54	49,96	1:15:06	49,96	1:15:19	49,96	1:15:31	49,95
1:14:54	49,96	1:15:07	49,96	1:15:19	49,96	1:15:32	49,95
1:14:54	49,96	1:15:07	49,96	1:15:19	49,96	1:15:32	49,95
1:14:55	49,96	1:15:07	49,97	1:15:20	49,96	1:15:32	49,95
1:14:55	49,96	1:15:08	49,97	1:15:20	49,96	1:15:33	49,95
1:14:55	49,96	1:15:08	49,97	1:15:20	49,96	1:15:33	49,95
1:14:56	49,96	1:15:08	49,97	1:15:21	49,96	1:15:33	49,95
1:14:56	49,96	1:15:08	49,97	1:15:21	49,96	1:15:33	49,95
1:14:56	49,96	1:15:09	49,97	1:15:21	49,96	1:15:34	49,95
1:14:57	49,96	1:15:09	49,97	1:15:22	49,96	1:15:34	49,95
1:14:57	49,96	1:15:09	49,97	1:15:22	49,96	1:15:34	49,95
1:14:57	49,96	1:15:10	49,97	1:15:22	49,96	1:15:35	49,95
1:14:58	49,96	1:15:10	49,97	1:15:23	49,96	1:15:35	49,95
1:14:58	49,96	1:15:10	49,97	1:15:23	49,96	1:15:35	49,95

1:14:58	49,97	1:15:11	49,97	1:15:23	49,96	1:15:36	49,95
1:14:58	49,97	1:15:11	49,97	1:15:23	49,96	1:15:36	49,95
1:14:59	49,97	1:15:11	49,97	1:15:24	49,96	1:15:36	49,95
1:14:59	49,97	1:15:12	49,97	1:15:24	49,96	1:15:37	49,95
1:14:59	49,97	1:15:12	49,97	1:15:24	49,96	1:15:37	49,95
1:15:00	49,97	1:15:12	49,97	1:15:25	49,96	1:15:37	49,95
1:15:00	49,97	1:15:13	49,97	1:15:25	49,96	1:15:37	49,95
1:15:00	49,97	1:15:13	49,97	1:15:25	49,96	1:15:38	49,95
1:15:01	49,97	1:15:13	49,97	1:15:26	49,96	1:15:38	49,96

d. Interval 400ms

JAM	HZ	JAM	HZ	JAM	HZ	JAM	HZ
1:47:25	49,85	1:47:40	49,85	1:47:56	49,84	1:48:12	49,84
1:47:25	49,85	1:47:41	49,85	1:47:57	49,84	1:48:12	49,84
1:47:25	49,85	1:47:41	49,85	1:47:57	49,84	1:48:13	49,84
1:47:26	49,85	1:47:42	49,85	1:47:57	49,84	1:48:13	49,84
1:47:26	49,85	1:47:42	49,85	1:47:58	49,84	1:48:14	49,84
1:47:27	49,85	1:47:42	49,85	1:47:58	49,84	1:48:14	49,84
1:47:27	49,85	1:47:43	49,85	1:47:59	49,84	1:48:15	49,84
1:47:27	49,85	1:47:43	49,85	1:47:59	49,84	1:48:15	49,84
1:47:28	49,85	1:47:44	49,85	1:48:00	49,84	1:48:15	49,84
1:47:28	49,85	1:47:44	49,85	1:48:00	49,84	1:48:16	49,84
1:47:29	49,85	1:47:45	49,85	1:48:00	49,84	1:48:16	49,84
1:47:29	49,85	1:47:45	49,85	1:48:01	49,84	1:48:17	49,84
1:47:29	49,85	1:47:45	49,85	1:48:01	49,84	1:48:17	49,84
1:47:30	49,85	1:47:46	49,85	1:48:02	49,84	1:48:17	49,84
1:47:30	49,84	1:47:46	49,85	1:48:02	49,84	1:48:18	49,84
1:47:31	49,84	1:47:47	49,85	1:48:02	49,84	1:48:18	49,84
1:47:31	49,84	1:47:47	49,85	1:48:03	49,84	1:48:19	49,84
1:47:32	49,84	1:47:47	49,85	1:48:03	49,84	1:48:19	49,84
1:47:32	49,84	1:47:48	49,85	1:48:04	49,84	1:48:19	49,84
1:47:32	49,84	1:47:48	49,84	1:48:04	49,84	1:48:20	49,84
1:47:33	49,84	1:47:49	49,84	1:48:04	49,84	1:48:20	49,84
1:47:33	49,85	1:47:49	49,84	1:48:05	49,84	1:48:21	49,84
1:47:34	49,85	1:47:49	49,84	1:48:05	49,84	1:48:21	49,84
1:47:34	49,85	1:47:50	49,84	1:48:06	49,84	1:48:21	49,84
1:47:34	49,85	1:47:50	49,84	1:48:06	49,84	1:48:22	49,84
1:47:35	49,85	1:47:51	49,84	1:48:06	49,84	1:48:22	49,84
1:47:35	49,85	1:47:51	49,84	1:48:07	49,84	1:48:23	49,84
1:47:36	49,85	1:47:51	49,84	1:48:07	49,84	1:48:23	49,84

1:47:36	49,85
1:47:36	49,85
1:47:37	49,85
1:47:37	49,85
1:47:38	49,85
1:47:38	49,85
1:47:38	49,85
1:47:39	49,85
1:47:39	49,85
1:47:40	49,85
1:47:40	49,85

1:47:52	49,84
1:47:52	49,84
1:47:53	49,84
1:47:53	49,84
1:47:53	49,84
1:47:54	49,84
1:47:54	49,84
1:47:55	49,84
1:47:55	49,84
1:47:55	49,84
1:47:56	49,84

1:48:08	49,84
1:48:08	49,84
1:48:08	49,84
1:48:09	49,84
1:48:09	49,84
1:48:10	49,84
1:48:10	49,84
1:48:10	49,84
1:48:11	49,84
1:48:11	49,84
1:48:12	49,84

1:48:23	49,84
1:48:24	49,84
1:48:24	49,84
1:48:25	49,84
1:48:25	49,84
1:48:25	49,84
1:48:26	49,84
1:48:26	49,84
1:48:27	49,84
1:48:27	49,84
1:48:27	49,84

JAM	HZ
1:48:28	49,84
1:48:28	49,84
1:48:29	49,84
1:48:29	49,84
1:48:30	49,84
1:48:30	49,84
1:48:30	49,84
1:48:31	49,84
1:48:31	49,84
1:48:32	49,84
1:48:32	49,84
1:48:32	49,84
1:48:33	49,84
1:48:33	49,84
1:48:34	49,84
1:48:34	49,84
1:48:34	49,85
1:48:35	49,85
1:48:35	49,85
1:48:36	49,85
1:48:36	49,85
1:48:36	49,84
1:48:37	49,84
1:48:37	49,84
1:48:38	49,84
1:48:38	49,84
1:48:38	49,84

JAM	HZ
1:48:44	49,83
1:48:45	49,83
1:48:45	49,83
1:48:45	49,83
1:48:46	49,83
1:48:46	49,83
1:48:47	49,83
1:48:47	49,83
1:48:48	49,83
1:48:48	49,83
1:48:49	49,83
1:48:49	49,83
1:48:49	49,83
1:48:50	49,83
1:48:50	49,83
1:48:51	49,83
1:48:51	49,83
1:48:51	49,83
1:48:52	49,83
1:48:52	49,83
1:48:53	49,83
1:48:53	49,83
1:48:53	49,83
1:48:54	49,83
1:48:54	49,83
1:48:55	49,83

JAM	HZ
1:49:00	49,83
1:49:01	49,83
1:49:01	49,83
1:49:02	49,83
1:49:02	49,83
1:49:02	49,83
1:49:03	49,83
1:49:03	49,83
1:49:04	49,83
1:49:04	49,83
1:49:04	49,83
1:49:05	49,83
1:49:05	49,82
1:49:06	49,82
1:49:06	49,82
1:49:06	49,83
1:49:07	49,83
1:49:07	49,82
1:49:08	49,82
1:49:08	49,82
1:49:08	49,82
1:49:09	49,82
1:49:09	49,82
1:49:10	49,82
1:49:10	49,82
1:49:11	49,82
1:49:11	49,82

JAM	HZ
1:49:17	49,82
1:49:17	49,82
1:49:17	49,82
1:49:18	49,82
1:49:18	49,82
1:49:19	49,82
1:49:19	49,82
1:49:19	49,82
1:49:20	49,82
1:49:20	49,82
1:49:21	49,82
1:49:21	49,82
1:49:21	49,82
1:49:22	49,82
1:49:22	49,82
1:49:23	49,82
1:49:23	49,82
1:49:23	49,82
1:49:24	49,82
1:49:24	49,82
1:49:25	49,82
1:49:25	49,82
1:49:26	49,82
1:49:26	49,82
1:49:26	49,82
1:49:27	49,82
1:49:27	49,82

1:48:39	49,84	1:48:55	49,83	1:49:11	49,82	1:49:28	49,82
1:48:39	49,84	1:48:56	49,83	1:49:12	49,82	1:49:28	49,82
1:48:40	49,84	1:48:56	49,83	1:49:12	49,83	1:49:28	49,83
1:48:40	49,84	1:48:56	49,83	1:49:13	49,83	1:49:29	49,83
1:48:40	49,84	1:48:57	49,83	1:49:13	49,83	1:49:29	49,83
1:48:41	49,84	1:48:57	49,83	1:49:13	49,82	1:49:30	49,83
1:48:41	49,84	1:48:58	49,83	1:49:14	49,82	1:49:30	49,83
1:48:42	49,84	1:48:58	49,83	1:49:14	49,82	1:49:30	49,83
1:48:42	49,84	1:48:58	49,83	1:49:15	49,82	1:49:31	49,83
1:48:43	49,84	1:48:59	49,83	1:49:15	49,82	1:49:31	49,83
1:48:43	49,84	1:48:59	49,83	1:49:15	49,82	1:49:32	49,83
1:48:43	49,84	1:49:00	49,83	1:49:16	49,82	1:49:32	49,83
1:48:44	49,84	1:49:00	49,83	1:49:16	49,82	1:49:32	49,83

e. Interval 500ms

JAM	HZ	JAM	HZ	JAM	HZ	JAM	HZ
1:58:29	49,99	1:58:49	50,03	1:59:09	50,04	1:59:28	50,05
1:58:30	50	1:58:49	50,03	1:59:09	50,04	1:59:29	50,05
1:58:30	50	1:58:50	50,03	1:59:10	50,05	1:59:29	50,05
1:58:31	49,99	1:58:50	50,03	1:59:10	50,05	1:59:30	50,06
1:58:31	49,99	1:58:51	50,03	1:59:11	50,05	1:59:30	50,06
1:58:32	49,99	1:58:52	50,03	1:59:11	50,05	1:59:31	50,06
1:58:32	49,99	1:58:52	50,03	1:59:12	50,05	1:59:31	50,06
1:58:33	49,99	1:58:53	50,04	1:59:12	50,05	1:59:32	50,06
1:58:33	49,99	1:58:53	50,04	1:59:13	50,05	1:59:32	50,06
1:58:34	49,99	1:58:54	50,04	1:59:13	50,05	1:59:33	50,07
1:58:35	49,99	1:58:54	50,04	1:59:14	50,05	1:59:33	50,07
1:58:35	49,99	1:58:55	50,04	1:59:14	50,05	1:59:34	50,07
1:58:36	50	1:58:55	50,04	1:59:15	50,05	1:59:34	50,07
1:58:36	50	1:58:56	50,04	1:59:15	50,05	1:59:35	50,07
1:58:37	50	1:58:56	50,04	1:59:16	50,05	1:59:35	50,07
1:58:37	50	1:58:57	50,04	1:59:16	50,05	1:59:36	50,07
1:58:38	50	1:58:57	50,04	1:59:17	50,05	1:59:36	50,07
1:58:38	50	1:58:58	50,04	1:59:17	50,05	1:59:37	50,07
1:58:39	50	1:58:58	50,04	1:59:18	50,05	1:59:37	50,07
1:58:39	50	1:58:59	50,04	1:59:18	50,05	1:59:38	50,07
1:58:40	50	1:58:59	50,04	1:59:19	50,05	1:59:38	50,07
1:58:40	50	1:59:00	50,04	1:59:19	50,05	1:59:39	50,06
1:58:41	50	1:59:00	50,04	1:59:20	50,05	1:59:39	50,06

1:58:41	50	1:59:01	50,04	1:59:20	50,05	1:59:40	50,06
1:58:42	50	1:59:01	50,04	1:59:21	50,05	1:59:40	50,06
1:58:42	50	1:59:02	50,04	1:59:21	50,05	1:59:41	50,06
1:58:43	50,01	1:59:02	50,04	1:59:22	50,05	1:59:42	50,06
1:58:43	50,01	1:59:03	50,04	1:59:22	50,05	1:59:42	50,06
1:58:44	50,01	1:59:03	50,04	1:59:23	50,05	1:59:43	50,06
1:58:44	50,01	1:59:04	50,04	1:59:24	50,05	1:59:43	50,06
1:58:45	50,01	1:59:04	50,04	1:59:24	50,05	1:59:44	50,06
1:58:45	50,01	1:59:05	50,04	1:59:25	50,05	1:59:44	50,06
1:58:46	50,02	1:59:05	50,04	1:59:25	50,05	1:59:45	50,06
1:58:46	50,02	1:59:06	50,04	1:59:26	50,05	1:59:45	50,06
1:58:47	50,02	1:59:06	50,04	1:59:26	50,05	1:59:46	50,07
1:58:47	50,02	1:59:07	50,04	1:59:27	50,05	1:59:46	50,07
1:58:48	50,02	1:59:08	50,04	1:59:27	50,05	1:59:47	50,07
1:58:48	50,02	1:59:08	50,04	1:59:28	50,05	1:59:47	50,07

JAM	HZ	JAM	HZ	JAM	HZ	JAM	HZ
1:59:48	50,07	2:00:08	50,05	2:00:29	50,08	2:00:50	50,06
1:59:48	50,07	2:00:09	50,05	2:00:29	50,08	2:00:50	50,06
1:59:49	50,07	2:00:09	50,05	2:00:30	50,08	2:00:51	50,06
1:59:49	50,07	2:00:10	50,05	2:00:30	50,08	2:00:51	50,06
1:59:50	50,07	2:00:10	50,05	2:00:31	50,08	2:00:52	50,06
1:59:50	50,07	2:00:11	50,05	2:00:31	50,08	2:00:52	50,06
1:59:51	50,07	2:00:11	50,05	2:00:32	50,08	2:00:53	50,06
1:59:51	50,07	2:00:12	50,05	2:00:33	50,08	2:00:53	50,06
1:59:52	50,06	2:00:12	50,05	2:00:33	50,08	2:00:54	50,06
1:59:52	50,06	2:00:13	50,05	2:00:34	50,08	2:00:54	50,06
1:59:53	50,07	2:00:13	50,05	2:00:34	50,07	2:00:55	50,06
1:59:53	50,07	2:00:14	50,05	2:00:35	50,07	2:00:55	50,06
1:59:54	50,07	2:00:14	50,05	2:00:35	50,07	2:00:56	50,06
1:59:54	50,07	2:00:15	50,04	2:00:36	50,07	2:00:56	50,06
1:59:55	50,07	2:00:16	50,04	2:00:36	50,07	2:00:57	50,06
1:59:55	50,07	2:00:16	50,04	2:00:37	50,07	2:00:57	50,06
1:59:56	50,07	2:00:17	50,04	2:00:37	50,07	2:00:58	50,06
1:59:56	50,07	2:00:17	50,04	2:00:38	50,07	2:00:58	50,06
1:59:57	50,07	2:00:18	50,04	2:00:38	50,07	2:00:59	50,06
1:59:57	50,07	2:00:18	50,05	2:00:39	50,07	2:00:59	50,06
1:59:58	50,07	2:00:19	50,05	2:00:39	50,07	2:01:00	50,06
1:59:59	50,07	2:00:19	50,05	2:00:40	50,07	2:01:00	50,06
1:59:59	50,07	2:00:20	50,06	2:00:40	50,07	2:01:01	50,06

2:00:00	50,07	2:00:20	50,06	2:00:41	50,07	2:01:01	50,06
2:00:00	50,06	2:00:21	50,06	2:00:41	50,07	2:01:02	50,06
2:00:01	50,06	2:00:21	50,06	2:00:42	50,07	2:01:02	50,06
2:00:01	50,06	2:00:22	50,06	2:00:42	50,07	2:01:03	50,06
2:00:02	50,06	2:00:22	50,06	2:00:43	50,07	2:01:03	50,06
2:00:02	50,06	2:00:23	50,07	2:00:43	50,07	2:01:04	50,06
2:00:03	50,07	2:00:23	50,07	2:00:44	50,07	2:01:04	50,06
2:00:03	50,07	2:00:24	50,07	2:00:44	50,07	2:01:05	50,06
2:00:04	50,06	2:00:24	50,07	2:00:45	50,07	2:01:05	50,06
2:00:04	50,06	2:00:25	50,07	2:00:45	50,07	2:01:06	50,06
2:00:05	50,06	2:00:25	50,07	2:00:46	50,07	2:01:07	50,06
2:00:05	50,06	2:00:26	50,07	2:00:46	50,07	2:01:07	50,06
2:00:06	50,06	2:00:26	50,07	2:00:47	50,06	2:01:08	50,06
2:00:06	50,06	2:00:27	50,07	2:00:47	50,06	2:01:08	50,06
2:00:07	50,06	2:00:27	50,07	2:00:48	50,06	2:01:09	50,06
2:00:07	50,06	2:00:28	50,07	2:00:48	50,06	2:01:09	50,06
2:00:08	50,05	2:00:28	50,07	2:00:49	50,06	2:01:10	50,06

f. Interval 600ms

JAM	HZ	JAM	HZ	JAM	HZ	JAM	HZ
2:13:23	50	2:13:47	49,97	2:14:11	49,97	2:14:35	49,98
2:13:24	50	2:13:48	49,97	2:14:11	49,97	2:14:35	49,98
2:13:25	49,99	2:13:48	49,97	2:14:12	49,97	2:14:36	49,99
2:13:25	49,99	2:13:49	49,97	2:14:13	49,97	2:14:36	49,99
2:13:26	49,99	2:13:49	49,97	2:14:13	49,97	2:14:37	49,99
2:13:26	49,99	2:13:50	49,97	2:14:14	49,97	2:14:38	49,99
2:13:27	49,99	2:13:51	49,97	2:14:14	49,97	2:14:38	49,99
2:13:28	49,99	2:13:51	49,97	2:14:15	49,97	2:14:39	49,99
2:13:28	49,98	2:13:52	49,97	2:14:16	49,97	2:14:39	50
2:13:29	49,98	2:13:53	49,97	2:14:16	49,96	2:14:40	50
2:13:29	49,98	2:13:53	49,97	2:14:17	49,96	2:14:41	50
2:13:30	49,98	2:13:54	49,96	2:14:17	49,95	2:14:41	50
2:13:31	49,98	2:13:54	49,96	2:14:18	49,95	2:14:42	50
2:13:31	49,98	2:13:55	49,96	2:14:19	49,95	2:14:42	50
2:13:32	49,98	2:13:56	49,96	2:14:19	49,95	2:14:43	50
2:13:32	49,97	2:13:56	49,96	2:14:20	49,95	2:14:44	50
2:13:33	49,97	2:13:57	49,96	2:14:21	49,95	2:14:44	50
2:13:34	49,97	2:13:57	49,96	2:14:21	49,95	2:14:45	50

2:13:34	49,97	2:13:58	49,96	2:14:22	49,95	2:14:45	50
2:13:35	49,97	2:13:59	49,96	2:14:22	49,95	2:14:46	50
2:13:35	49,98	2:13:59	49,96	2:14:23	49,95	2:14:47	50
2:13:36	49,98	2:14:00	49,96	2:14:24	49,95	2:14:47	50
2:13:37	49,98	2:14:00	49,96	2:14:24	49,95	2:14:48	50
2:13:37	49,98	2:14:01	49,96	2:14:25	49,95	2:14:49	50
2:13:38	49,98	2:14:02	49,96	2:14:25	49,95	2:14:49	50
2:13:38	49,98	2:14:02	49,97	2:14:26	49,95	2:14:50	50
2:13:39	49,98	2:14:03	49,97	2:14:27	49,96	2:14:50	50
2:13:40	49,98	2:14:03	49,97	2:14:27	49,96	2:14:51	50
2:13:40	49,98	2:14:04	49,97	2:14:28	49,96	2:14:52	50
2:13:41	49,98	2:14:05	49,97	2:14:28	49,97	2:14:52	50
2:13:42	49,98	2:14:05	49,97	2:14:29	49,97	2:14:53	50
2:13:42	49,98	2:14:06	49,97	2:14:30	49,97	2:14:53	50
2:13:43	49,98	2:14:07	49,96	2:14:30	49,98	2:14:54	50
2:13:43	49,98	2:14:07	49,96	2:14:31	49,98	2:14:55	50
2:13:44	49,98	2:14:08	49,97	2:14:31	49,98	2:14:55	50
2:13:45	49,98	2:14:08	49,97	2:14:32	49,98	2:14:56	50
2:13:45	49,98	2:14:09	49,97	2:14:33	49,98	2:14:56	50
2:13:46	49,98	2:14:10	49,97	2:14:33	49,98	2:14:57	50
2:13:46	49,97	2:14:10	49,97	2:14:34	49,98	2:14:58	50,01

JAM	HZ	JAM	HZ	JAM	HZ	JAM	HZ
2:14:58	50,01	2:15:23	49,99	2:15:47	49,96	2:16:11	49,96
2:14:59	50,01	2:15:23	49,99	2:15:48	49,96	2:16:12	49,96
2:14:59	50,01	2:15:24	49,99	2:15:48	49,96	2:16:12	49,97
2:15:00	50,01	2:15:24	49,99	2:15:49	49,96	2:16:13	49,97
2:15:01	50,01	2:15:25	49,99	2:15:49	49,96	2:16:14	49,97
2:15:01	50,01	2:15:26	49,99	2:15:50	49,96	2:16:14	49,97
2:15:02	50,01	2:15:26	49,99	2:15:51	49,96	2:16:15	49,97
2:15:03	50,01	2:15:27	49,99	2:15:51	49,96	2:16:16	49,97
2:15:03	50,01	2:15:27	49,99	2:15:52	49,96	2:16:16	49,97
2:15:04	50,01	2:15:28	49,99	2:15:52	49,96	2:16:17	49,97
2:15:04	50,01	2:15:29	49,99	2:15:53	49,96	2:16:17	49,97
2:15:05	50,01	2:15:29	49,98	2:15:54	49,96	2:16:18	49,97
2:15:06	50,01	2:15:30	49,98	2:15:54	49,96	2:16:19	49,97
2:15:06	50,01	2:15:31	49,98	2:15:55	49,96	2:16:19	49,97
2:15:07	50,01	2:15:31	49,98	2:15:55	49,96	2:16:20	49,97
2:15:07	50,01	2:15:32	49,98	2:15:56	49,96	2:16:20	49,97
2:15:08	50,01	2:15:32	49,98	2:15:57	49,96	2:16:21	49,97

2:15:09	50	2:15:33	49,98	2:15:57	49,96	2:16:22	49,97
2:15:09	50	2:15:34	49,97	2:15:58	49,96	2:16:22	49,97
2:15:10	50	2:15:34	49,97	2:15:58	49,96	2:16:23	49,97
2:15:10	50	2:15:35	49,97	2:15:59	49,96	2:16:23	49,97
2:15:11	50	2:15:35	49,97	2:16:00	49,95	2:16:24	49,97
2:15:12	49,99	2:15:36	49,97	2:16:00	49,95	2:16:25	49,97
2:15:12	49,99	2:15:37	49,97	2:16:01	49,95	2:16:25	49,97
2:15:13	49,99	2:15:37	49,97	2:16:02	49,95	2:16:26	49,97
2:15:13	49,99	2:15:38	49,97	2:16:02	49,95	2:16:26	49,97
2:15:14	49,99	2:15:38	49,96	2:16:03	49,95	2:16:27	49,97
2:15:15	49,99	2:15:39	49,96	2:16:03	49,95	2:16:28	49,97
2:15:15	49,99	2:15:40	49,96	2:16:04	49,95	2:16:28	49,97
2:15:16	49,99	2:15:40	49,96	2:16:05	49,95	2:16:29	49,97
2:15:17	49,99	2:15:41	49,96	2:16:05	49,95	2:16:30	49,97
2:15:17	49,99	2:15:41	49,96	2:16:06	49,95	2:16:30	49,97
2:15:18	49,99	2:15:42	49,96	2:16:06	49,96	2:16:31	49,97
2:15:18	49,99	2:15:43	49,96	2:16:07	49,96	2:16:31	49,98
2:15:19	49,99	2:15:43	49,96	2:16:08	49,96	2:16:32	49,98
2:15:20	49,99	2:15:44	49,96	2:16:08	49,96	2:16:33	49,98
2:15:20	49,99	2:15:44	49,96	2:16:09	49,96	2:16:33	49,98
2:15:21	49,99	2:15:45	49,96	2:16:09	49,96	2:16:34	49,98
2:15:21	49,99	2:15:46	49,96	2:16:10	49,96	2:16:34	49,98
2:15:22	49,99	2:15:46	49,96	2:16:11	49,96	2:16:35	49,98

g. Interval 700ms

JAM	HZ	JAM	HZ	JAM	HZ	JAM	HZ
2:25:04	49,98	2:25:31	50,03	2:25:58	50,02	2:26:26	50,04
2:25:04	49,98	2:25:32	50,03	2:25:59	50,02	2:26:27	50,04
2:25:05	49,98	2:25:32	50,03	2:26:00	50,02	2:26:27	50,04
2:25:06	49,98	2:25:33	50,03	2:26:01	50,02	2:26:28	50,03
2:25:06	49,98	2:25:34	50,03	2:26:01	50,02	2:26:29	50,03
2:25:07	49,99	2:25:35	50,03	2:26:02	50,02	2:26:29	50,03
2:25:08	49,99	2:25:35	50,04	2:26:03	50,02	2:26:30	50,03
2:25:09	49,99	2:25:36	50,04	2:26:03	50,02	2:26:31	50,03
2:25:09	49,99	2:25:37	50,04	2:26:04	50,02	2:26:31	50,03
2:25:10	49,99	2:25:37	50,04	2:26:05	50,02	2:26:32	50,03
2:25:11	49,99	2:25:38	50,04	2:26:05	50,02	2:26:33	50,03
2:25:11	49,99	2:25:39	50,04	2:26:06	50,02	2:26:34	50,03
2:25:12	49,99	2:25:39	50,04	2:26:07	50,02	2:26:34	50,03

2:25:13	49,99
2:25:13	49,99
2:25:14	49,99
2:25:15	50
2:25:16	50
2:25:16	50
2:25:17	50,01
2:25:18	50,01
2:25:18	50,01
2:25:19	50,01
2:25:20	50,01
2:25:21	50,01
2:25:21	50,02
2:25:22	50,02
2:25:23	50,02
2:25:23	50,02
2:25:24	50,02
2:25:25	50,02
2:25:25	50,02
2:25:26	50,02
2:25:27	50,02
2:25:28	50,02
2:25:28	50,03
2:25:29	50,03
2:25:30	50,03
2:25:30	50,03

2:25:40	50,04
2:25:41	50,04
2:25:42	50,04
2:25:42	50,04
2:25:43	50,03
2:25:44	50,03
2:25:44	50,03
2:25:45	50,03
2:25:46	50,03
2:25:46	50,03
2:25:47	50,03
2:25:48	50,03
2:25:49	50,03
2:25:49	50,03
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JAM	HZ
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JAM	HZ
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JAM	HZ
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2:27:54	50,02
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2:27:56	50,02
2:27:57	50,02

JAM	HZ
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2:27:06	50,04	2:27:34	50,03	2:28:02	50,03	2:28:30	50,04
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2:27:07	50,05	2:27:35	50,03	2:28:03	50,02	2:28:31	50,04
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2:27:14	50,05	2:27:42	50,03	2:28:10	50,03	2:28:38	50,03
2:27:14	50,05	2:27:42	50,03	2:28:10	50,03	2:28:38	50,03
2:27:15	50,05	2:27:43	50,03	2:28:11	50,03	2:28:39	50,03
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2:27:16	50,04	2:27:44	50,03	2:28:13	50,03	2:28:41	50,03
2:27:17	50,04	2:27:45	50,03	2:28:13	50,03	2:28:41	50,03
2:27:18	50,04	2:27:46	50,03	2:28:14	50,03	2:28:42	50,03
2:27:18	50,04	2:27:47	50,03	2:28:15	50,03	2:28:43	50,03
2:27:19	50,04	2:27:47	50,03	2:28:15	50,03	2:28:43	50,03
2:27:20	50,04	2:27:48	50,02	2:28:16	50,03	2:28:44	50,03
2:27:21	50,04	2:27:49	50,02	2:28:17	50,03	2:28:45	50,03

h. Interval 800ms

JAM	HZ	JAM	HZ	JAM	HZ	JAM	HZ
2:35:40	49,99	2:36:11	49,96	2:36:43	49,97	2:37:15	49,97
2:35:41	49,99	2:36:12	49,96	2:36:44	49,97	2:37:16	49,97
2:35:41	49,99	2:36:13	49,96	2:36:45	49,97	2:37:16	49,97
2:35:42	49,99	2:36:14	49,96	2:36:46	49,97	2:37:17	49,97
2:35:43	49,99	2:36:15	49,96	2:36:46	49,97	2:37:18	49,97
2:35:44	49,99	2:36:16	49,95	2:36:47	49,97	2:37:19	49,96
2:35:45	49,99	2:36:16	49,95	2:36:48	49,97	2:37:20	49,97
2:35:46	49,99	2:36:17	49,95	2:36:49	49,97	2:37:20	49,97

2:35:46	49,98	2:36:18	49,95	2:36:50	49,96	2:37:21	49,98
2:35:47	49,98	2:36:19	49,95	2:36:50	49,96	2:37:22	49,98
2:35:48	49,98	2:36:20	49,95	2:36:51	49,96	2:37:23	49,98
2:35:49	49,98	2:36:20	49,95	2:36:52	49,96	2:37:24	49,98
2:35:50	49,98	2:36:21	49,95	2:36:53	49,96	2:37:24	49,98
2:35:50	49,98	2:36:22	49,95	2:36:54	49,96	2:37:25	49,99
2:35:51	49,98	2:36:23	49,95	2:36:54	49,96	2:37:26	49,99
2:35:52	49,98	2:36:24	49,95	2:36:55	49,96	2:37:27	49,99
2:35:53	49,98	2:36:24	49,95	2:36:56	49,96	2:37:28	49,99
2:35:54	49,98	2:36:25	49,95	2:36:57	49,96	2:37:29	49,99
2:35:54	49,98	2:36:26	49,95	2:36:58	49,96	2:37:29	49,99
2:35:55	49,98	2:36:27	49,95	2:36:59	49,96	2:37:30	49,99
2:35:56	49,98	2:36:28	49,95	2:36:59	49,96	2:37:31	50
2:35:57	49,98	2:36:29	49,95	2:37:00	49,96	2:37:32	50,01
2:35:58	49,98	2:36:29	49,95	2:37:01	49,96	2:37:33	50,01
2:35:59	49,98	2:36:30	49,95	2:37:02	49,96	2:37:33	50,01
2:35:59	49,98	2:36:31	49,95	2:37:03	49,96	2:37:34	50,02
2:36:00	49,98	2:36:32	49,96	2:37:03	49,96	2:37:35	50,02
2:36:01	49,98	2:36:33	49,96	2:37:04	49,97	2:37:36	50,02
2:36:02	49,98	2:36:33	49,96	2:37:05	49,97	2:37:37	50,01
2:36:03	49,97	2:36:34	49,96	2:37:06	49,97	2:37:37	50,01
2:36:03	49,97	2:36:35	49,96	2:37:07	49,97	2:37:38	50,01
2:36:04	49,97	2:36:36	49,96	2:37:07	49,98	2:37:39	50,01
2:36:05	49,97	2:36:37	49,97	2:37:08	49,98	2:37:40	50,02
2:36:06	49,97	2:36:37	49,97	2:37:09	49,98	2:37:41	50,02
2:36:07	49,97	2:36:38	49,97	2:37:10	49,97	2:37:42	50,02
2:36:07	49,97	2:36:39	49,97	2:37:11	49,97	2:37:42	50,02
2:36:08	49,96	2:36:40	49,97	2:37:12	49,97	2:37:43	50,02
2:36:09	49,96	2:36:41	49,97	2:37:12	49,97	2:37:44	50,02
2:36:10	49,96	2:36:42	49,97	2:37:13	49,97	2:37:45	50,02
2:36:11	49,96	2:36:42	49,97	2:37:14	49,97	2:37:46	50,02

JAM	HZ
2:37:46	50,03
2:37:47	50,03
2:37:48	50,03
2:37:49	50,02
2:37:50	50,02
2:37:50	50,02
2:37:51	50,01

JAM	HZ
2:38:19	49,99
2:38:20	50
2:38:20	50
2:38:21	50
2:38:22	50
2:38:23	50
2:38:24	50

JAM	HZ
2:38:51	49,97
2:38:52	49,97
2:38:53	49,97
2:38:54	49,97
2:38:55	49,97
2:38:55	49,97
2:38:56	49,97

JAM	HZ
2:39:24	50,05
2:39:25	50,05
2:39:25	50,05
2:39:26	50,05
2:39:27	50,05
2:39:28	50,05
2:39:29	50,05

2:37:52	50,01	2:38:25	49,99	2:38:57	49,97	2:39:29	50,05
2:37:53	50,01	2:38:25	49,99	2:38:58	49,98	2:39:30	50,05
2:37:54	50,01	2:38:26	49,99	2:38:59	49,98	2:39:31	50,05
2:37:55	50	2:38:27	49,99	2:38:59	49,98	2:39:32	50,04
2:37:55	50	2:38:28	49,99	2:39:00	49,98	2:39:33	50,04
2:37:56	50	2:38:29	49,99	2:39:01	49,98	2:39:33	50,04
2:37:57	49,99	2:38:29	49,99	2:39:02	49,99	2:39:34	50,04
2:37:58	49,98	2:38:30	49,99	2:39:03	50	2:39:35	50,04
2:37:59	49,98	2:38:31	49,99	2:39:03	50,01	2:39:36	50,04
2:37:59	49,97	2:38:32	49,99	2:39:04	50,01	2:39:37	50,04
2:38:00	49,97	2:38:33	49,99	2:39:05	50,01	2:39:38	50,03
2:38:01	49,97	2:38:33	49,99	2:39:06	50,02	2:39:38	50,03
2:38:02	49,97	2:38:34	49,99	2:39:07	50,02	2:39:39	50,03
2:38:03	49,97	2:38:35	49,99	2:39:08	50,03	2:39:40	50,03
2:38:03	49,96	2:38:36	49,99	2:39:08	50,03	2:39:41	50,03
2:38:04	49,96	2:38:37	49,99	2:39:09	50,03	2:39:42	50,03
2:38:05	49,96	2:38:38	49,99	2:39:10	50,03	2:39:42	50,03
2:38:06	49,96	2:38:38	49,99	2:39:11	50,03	2:39:43	50,03
2:38:07	49,96	2:38:39	49,99	2:39:12	50,03	2:39:44	50,03
2:38:07	49,96	2:38:40	49,99	2:39:12	50,04	2:39:45	50,03
2:38:08	49,97	2:38:41	49,99	2:39:13	50,04	2:39:46	50,03
2:38:09	49,97	2:38:42	49,98	2:39:14	50,04	2:39:46	50,03
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2:38:17	49,99	2:38:50	49,97	2:39:22	50,05	2:39:55	50,02
2:38:18	49,99	2:38:50	49,97	2:39:23	50,05	2:39:55	50,02

i. Interval 900ms

JAM	HZ
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2:53:59	49,96

JAM	HZ
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2:54:34	50
2:54:35	50,01

JAM	HZ
2:55:08	50,03
2:55:09	50,03
2:55:10	50,03

JAM	HZ
2:55:43	50
2:55:44	50
2:55:45	50

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2:54:01	49,96
2:54:02	49,95
2:54:03	49,95
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2:56:14	49,99
2:56:15	49,99
2:56:16	49,99
2:56:17	49,99
2:56:18	49,99

JAM	HZ
2:56:19	49,99
2:56:20	49,99

JAM	HZ
2:56:55	49,98
2:56:56	49,98

JAM	HZ
2:57:31	49,99
2:57:32	49,99

JAM	HZ
2:58:07	50,03
2:58:08	50,03

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2:56:21	49,99	2:56:58	49,97	2:57:34	50	2:58:10	50,03
2:56:22	49,99	2:56:59	49,98	2:57:35	50	2:58:11	50,03
2:56:23	49,99	2:56:59	49,98	2:57:36	50	2:58:12	50,03
2:56:24	49,98	2:57:00	49,98	2:57:37	50	2:58:13	50,03
2:56:25	49,98	2:57:01	49,98	2:57:37	50,01	2:58:14	50,03
2:56:26	49,98	2:57:02	49,98	2:57:38	50,01	2:58:15	50,03
2:56:27	49,98	2:57:03	49,98	2:57:39	50,01	2:58:15	50,03
2:56:28	49,98	2:57:04	49,98	2:57:40	50,01	2:58:16	50,04
2:56:29	49,99	2:57:05	49,98	2:57:41	50,01	2:58:17	50,04
2:56:30	49,99	2:57:06	49,99	2:57:42	50,02	2:58:18	50,04
2:56:30	49,99	2:57:07	49,99	2:57:43	50,02	2:58:19	50,04
2:56:31	49,98	2:57:08	49,99	2:57:44	50,02	2:58:20	50,04
2:56:32	49,98	2:57:08	49,99	2:57:45	50,03	2:58:21	50,04
2:56:33	49,98	2:57:09	49,99	2:57:46	50,03	2:58:22	50,04
2:56:34	49,97	2:57:10	49,99	2:57:46	50,03	2:58:23	50,04
2:56:35	49,97	2:57:11	49,99	2:57:47	50,03	2:58:24	50,04
2:56:36	49,97	2:57:12	49,99	2:57:48	50,03	2:58:24	50,04
2:56:37	49,97	2:57:13	49,99	2:57:49	50,03	2:58:25	50,04
2:56:38	49,97	2:57:14	49,99	2:57:50	50,03	2:58:26	50,04
2:56:39	49,97	2:57:15	49,99	2:57:51	50,03	2:58:27	50,04
2:56:40	49,97	2:57:16	49,99	2:57:52	50,03	2:58:28	50,04
2:56:40	49,97	2:57:17	49,99	2:57:53	50,03	2:58:29	50,04
2:56:41	49,97	2:57:18	49,98	2:57:54	50,03	2:58:30	50,04
2:56:42	49,97	2:57:18	49,98	2:57:55	50,03	2:58:31	50,04
2:56:43	49,97	2:57:19	49,98	2:57:56	50,04	2:58:32	50,04
2:56:44	49,97	2:57:20	49,98	2:57:56	50,03	2:58:33	50,04
2:56:45	49,97	2:57:21	49,98	2:57:57	50,04	2:58:34	50,04
2:56:46	49,98	2:57:22	49,98	2:57:58	50,03	2:58:34	50,04
2:56:47	49,98	2:57:23	49,99	2:57:59	50,03	2:58:35	50,04
2:56:48	49,98	2:57:24	49,99	2:58:00	50,03	2:58:36	50,04
2:56:49	49,98	2:57:25	49,99	2:58:01	50,03	2:58:37	50,05
2:56:49	49,98	2:57:26	49,99	2:58:02	50,04	2:58:38	50,05
2:56:50	49,98	2:57:27	50	2:58:03	50,04	2:58:39	50,05
2:56:51	49,98	2:57:27	49,99	2:58:04	50,04	2:58:40	50,05
2:56:52	49,98	2:57:28	49,99	2:58:05	50,04	2:58:41	50,05
2:56:53	49,98	2:57:29	49,99	2:58:05	50,04	2:58:42	50,05
2:56:54	49,98	2:57:30	49,99	2:58:06	50,04	2:58:43	50,05

j. Interval 1000ms

JAM	HZ	JAM	HZ	JAM	HZ	JAM	HZ
3:05:07	49,98	3:05:46	49,93	3:06:26	49,96	3:07:06	49,96
3:05:08	49,97	3:05:47	49,93	3:06:27	49,96	3:07:07	49,96
3:05:09	49,97	3:05:49	49,93	3:06:28	49,95	3:07:08	49,97
3:05:10	49,97	3:05:50	49,94	3:06:29	49,95	3:07:09	49,97
3:05:11	49,97	3:05:51	49,94	3:06:30	49,95	3:07:10	49,97
3:05:12	49,97	3:05:52	49,93	3:06:31	49,95	3:07:11	49,97
3:05:13	49,97	3:05:53	49,93	3:06:32	49,95	3:07:12	49,97
3:05:14	49,97	3:05:54	49,93	3:06:33	49,95	3:07:13	49,97
3:05:15	49,97	3:05:55	49,93	3:06:34	49,95	3:07:14	49,98
3:05:16	49,96	3:05:56	49,93	3:06:35	49,95	3:07:15	49,98
3:05:17	49,96	3:05:57	49,93	3:06:36	49,95	3:07:16	49,98
3:05:18	49,96	3:05:58	49,93	3:06:37	49,96	3:07:17	49,97
3:05:19	49,96	3:05:59	49,93	3:06:38	49,96	3:07:18	49,97
3:05:20	49,96	3:06:00	49,94	3:06:39	49,96	3:07:19	49,97
3:05:21	49,96	3:06:01	49,94	3:06:40	49,96	3:07:20	49,97
3:05:22	49,96	3:06:02	49,94	3:06:41	49,96	3:07:21	49,97
3:05:23	49,96	3:06:03	49,94	3:06:42	49,97	3:07:22	49,97
3:05:24	49,96	3:06:04	49,94	3:06:43	49,97	3:07:23	49,96
3:05:25	49,96	3:06:05	49,95	3:06:44	49,96	3:07:24	49,96
3:05:26	49,96	3:06:06	49,95	3:06:45	49,96	3:07:25	49,96
3:05:27	49,96	3:06:07	49,95	3:06:46	49,96	3:07:26	49,96
3:05:28	49,96	3:06:08	49,96	3:06:47	49,95	3:07:27	49,96
3:05:29	49,96	3:06:09	49,96	3:06:48	49,95	3:07:28	49,96
3:05:30	49,96	3:06:10	49,97	3:06:49	49,95	3:07:29	49,96
3:05:31	49,96	3:06:11	49,97	3:06:50	49,95	3:07:30	49,96
3:05:32	49,96	3:06:12	49,97	3:06:51	49,94	3:07:31	49,96
3:05:33	49,95	3:06:13	49,97	3:06:52	49,94	3:07:32	49,95
3:05:34	49,95	3:06:14	49,97	3:06:53	49,94	3:07:33	49,95
3:05:35	49,95	3:06:15	49,97	3:06:54	49,94	3:07:34	49,95
3:05:36	49,95	3:06:16	49,96	3:06:55	49,94	3:07:35	49,95
3:05:37	49,94	3:06:17	49,96	3:06:56	49,94	3:07:36	49,95
3:05:38	49,94	3:06:18	49,96	3:06:57	49,94	3:07:37	49,95
3:05:39	49,94	3:06:19	49,96	3:06:58	49,95	3:07:38	49,96
3:05:40	49,94	3:06:20	49,96	3:06:59	49,95	3:07:39	49,95
3:05:41	49,93	3:06:21	49,96	3:07:01	49,95	3:07:40	49,95
3:05:42	49,93	3:06:22	49,96	3:07:02	49,96	3:07:41	49,96
3:05:43	49,93	3:06:23	49,96	3:07:03	49,96	3:07:42	49,96
3:05:44	49,93	3:06:24	49,96	3:07:04	49,96	3:07:43	49,96

3:05:45	49,93	3:06:25	49,96	3:07:05	49,96	3:07:44	49,96
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JAM	HZ
3:07:45	49,96
3:07:46	49,96
3:07:47	49,96
3:07:48	49,96
3:07:49	49,96
3:07:50	49,96
3:07:51	49,96
3:07:52	49,96
3:07:53	49,96
3:07:54	49,96
3:07:55	49,95
3:07:56	49,95
3:07:57	49,94
3:07:58	49,94
3:07:59	49,94
3:08:00	49,94
3:08:01	49,94
3:08:02	49,94
3:08:03	49,94
3:08:04	49,94
3:08:05	49,95
3:08:06	49,95
3:08:07	49,95
3:08:08	49,95
3:08:09	49,95
3:08:10	49,95
3:08:11	49,95
3:08:13	49,94
3:08:14	49,94
3:08:15	49,94
3:08:16	49,94
3:08:17	49,94
3:08:18	49,93
3:08:19	49,93
3:08:20	49,93
3:08:21	49,93
3:08:22	49,92

JAM	HZ
3:08:26	49,92
3:08:27	49,92
3:08:28	49,92
3:08:29	49,92
3:08:30	49,92
3:08:31	49,92
3:08:32	49,92
3:08:33	49,92
3:08:34	49,92
3:08:35	49,92
3:08:36	49,92
3:08:37	49,92
3:08:38	49,92
3:08:39	49,92
3:08:40	49,91
3:08:41	49,91
3:08:42	49,91
3:08:43	49,91
3:08:44	49,91
3:08:45	49,91
3:08:46	49,91
3:08:47	49,92
3:08:48	49,91
3:08:49	49,91
3:08:50	49,91
3:08:51	49,92
3:08:52	49,92
3:08:53	49,92
3:08:54	49,92
3:08:55	49,92
3:08:56	49,92
3:08:57	49,92
3:08:58	49,91
3:08:59	49,91
3:09:00	49,91
3:09:01	49,91
3:09:02	49,91

JAM	HZ
3:09:06	49,91
3:09:07	49,9
3:09:08	49,9
3:09:09	49,9
3:09:10	49,9
3:09:11	49,9
3:09:12	49,9
3:09:13	49,9
3:09:14	49,9
3:09:15	49,9
3:09:16	49,91
3:09:17	49,9
3:09:18	49,9
3:09:19	49,9
3:09:20	49,9
3:09:21	49,9
3:09:22	49,9
3:09:23	49,9
3:09:24	49,9
3:09:26	49,9
3:09:27	49,9
3:09:28	49,9
3:09:29	49,9
3:09:30	49,9
3:09:31	49,89
3:09:32	49,89
3:09:33	49,89
3:09:34	49,89
3:09:35	49,89
3:09:36	49,89
3:09:37	49,89
3:09:38	49,89
3:09:39	49,88
3:09:40	49,89
3:09:41	49,89
3:09:42	49,89
3:09:43	49,89

JAM	HZ
3:09:47	49,9
3:09:48	49,9
3:09:49	49,9
3:09:50	49,9
3:09:51	49,91
3:09:52	49,91
3:09:53	49,91
3:09:54	49,92
3:09:55	49,92
3:09:56	49,92
3:09:57	49,92
3:09:58	49,92
3:09:59	49,93
3:10:00	49,93
3:10:01	49,93
3:10:02	49,93
3:10:03	49,92
3:10:04	49,92
3:10:05	49,92
3:10:06	49,92
3:10:07	49,92
3:10:08	49,92
3:10:09	49,92
3:10:10	49,92
3:10:11	49,92
3:10:12	49,92
3:10:13	49,92
3:10:14	49,92
3:10:15	49,92
3:10:16	49,92
3:10:17	49,92
3:10:18	49,92
3:10:19	49,92
3:10:20	49,92
3:10:21	49,92
3:10:22	49,93
3:10:23	49,93

18:36:23	50	18:36:27	50
18:36:23	50	18:36:27	50
18:36:23	50	18:36:27	50
18:36:23	50	18:36:28	50
18:36:23	50	18:36:28	50
18:36:24	50	18:36:28	50
18:36:24	50	18:36:28	50

1. Interval 200 from 50,00 Hz to 49,6 Hz

JAM	HZ	JAM	HZ
18:39:11	50	18:39:19	50
18:39:11	50	18:39:19	50
18:39:11	50	18:39:19	50
18:39:11	50	18:39:19	50
18:39:11	50	18:39:19	50
18:39:12	50	18:39:20	50
18:39:12	50	18:39:20	50
18:39:12	50	18:39:20	50
18:39:12	50	18:39:20	50
18:39:12	50		
18:39:13	50		
18:39:13	50		
18:39:13	50		
18:39:13	50		
18:39:14	50		
18:39:14	50		
18:39:14	50		
18:39:14	50		
18:39:14	50		
18:39:15	49,61		
18:39:15	49,96		
18:39:15	49,96		
18:39:15	49,96		
18:39:15	49,96		
18:39:16	49,96		
18:39:16	49,96		
18:39:16	49,96		
18:39:16	49,96		
18:39:16	49,96		

18:39:17	49,96
18:39:17	49,96
18:39:17	50
18:39:17	50
18:39:17	50
18:39:18	50
18:39:18	50
18:39:18	50
18:39:18	50
18:39:18	50

m. Interval 300 from 50,00 Hz to 49,6 Hz

JAM	HZ
18:40:01	50
18:40:01	50
18:40:01	50
18:40:01	50
18:40:02	50
18:40:02	50
18:40:02	50
18:40:02	50
18:40:03	50
18:40:03	50
18:40:03	50
18:40:03	50
18:40:04	50
18:40:04	50
18:40:04	50
18:40:05	50
18:40:05	50
18:40:05	50

JAM	HZ
18:40:06	50
18:40:06	49,97
18:40:06	50
18:40:06	50
18:40:07	50
18:40:07	50
18:40:07	50
18:40:07	50
18:40:08	50
18:40:08	50
18:40:08	50
18:40:08	50
18:40:09	50
18:40:09	50
18:40:09	50
18:40:09	50
18:40:10	50
18:40:10	50
18:40:10	50

n. Interval 400 from 50,00 Hz to 49,6 Hz

JAM	HZ
18:41:00	50
18:41:00	50
18:41:00	50
18:41:01	50
18:41:01	50
18:41:02	50

JAM	HZ
18:41:05	50
18:41:05	50
18:41:06	50
4 18:41:06	50
8 18:41:07	50
2 18:41:07	50

18:41:02	50
18:41:02	50
18:41:03	50
18:41:03	50
18:41:04	50
18:41:04	50
18:41:05	50

6	18:41:07	50
	18:41:08	50
4	18:41:08	50
8	18:41:09	50
2	18:41:09	50
6	18:41:09	50

o. Interval 500 from 50,00 Hz to 49,6 Hz

JAM	HZ
18:41:32	50
18:41:32	50
18:41:33	50
18:41:33	50
18:41:34	50
18:41:34	50
18:41:35	50
18:41:35	50
18:41:36	50
18:41:36	50

JAM	HZ
18:41:37	50
18:41:37	50
18:41:38	50
18:41:38	50
18:41:39	50
18:41:39	50
18:41:40	50
18:41:40	50
18:41:41	50
18:41:41	50

p. Interval 600 from 50,00 Hz to 49,6 Hz

JAM	HZ
18:43:40	50
18:43:40	50
18:43:41	50
18:43:41	50
18:43:42	50
18:43:43	50
18:43:43	50
18:43:44	50
18:43:45	50
18:43:45	50
18:43:46	50
18:43:46	50
18:43:47	50
18:43:48	50
18:43:48	50

18:43:49	50
18:43:49	50

q. Interval 700 from 50,00 Hz to 49,6 Hz

JAM	HZ
18:44:40	50
18:44:40	50
18:44:41	50
18:44:42	50
18:44:42	50
18:44:43	50
18:44:44	50
18:44:45	50
18:44:45	50
18:44:46	50
18:44:47	50
18:44:47	50
18:44:48	50
18:44:49	50
18:44:49	50

r. Interval 800 from 50,00 Hz to 49,6 Hz

JAM	HZ
18:45:54	50
18:45:54	50
18:45:55	50
18:45:56	50
18:45:57	50
18:45:58	50
18:45:58	50
18:45:59	50
18:46:00	50
18:46:01	50
18:46:02	50
18:46:03	50

s. Interval 900 from 50,00 Hz to 49,6 Hz

JAM	HZ
18:46:41	50
18:46:42	50
18:46:43	50
18:46:44	50
18:46:44	50
18:46:45	50
18:46:46	50
18:46:47	50
18:46:48	50
18:46:49	50
18:46:50	50

t. Interval 1000 from 50,00 Hz to 49,6 Hz

JAM	HZ
18:47:34	50
18:47:35	50
18:47:36	50
18:47:37	50
18:47:38	50
18:47:39	50
18:47:40	50
18:47:41	50
18:47:42	50

u. Interval Sampling 100ms, from 50,0 Hz to 50,7 Hz

JAM	HZ
19:05:23	50
19:05:23	50
19:05:23	50
19:05:23	50
19:05:24	50
19:05:24	50
19:05:24	50
19:05:24	50
19:05:24	50
19:05:24	50

JAM	HZ
19:05:27	50
19:05:27	50
19:05:28	50
19:05:28	50
19:05:28	50
19:05:28	50
19:05:28	50
19:05:28	50
19:05:28	50
19:05:28	50

JAM	HZ
19:05:32	50
19:05:32	50
19:05:32	50
19:05:32	50
19:05:32	50
19:05:32	50
19:05:32	50
19:05:32	50
19:05:32	50
19:05:33	50

JAM	HZ
19:05:36	50
19:05:36	50
19:05:36	50
19:05:36	50
19:05:36	50
19:05:36	50
19:05:36	50
19:05:37	50
19:05:37	50
19:05:37	50

19:05:41	50	19:05:45	50
19:05:41	50	19:05:46	50
19:05:41	50	19:05:46	50
19:05:41	50	19:05:46	50
19:05:41	50	19:05:46	50
19:05:42	50	19:05:46	50
19:05:42	50	19:05:46	50
19:05:42	50	19:05:46	50
19:05:42	50	19:05:46	50
19:05:42	50	19:05:46	50
19:05:42	50	19:05:47	50
19:05:42	50		
19:05:42	50		
19:05:42	50		
19:05:43	50		
19:05:43	50		
19:05:43	50		
19:05:43	50		
19:05:43	50		
19:05:43	50		
19:05:43	50		
19:05:43	50		
19:05:43	50		
19:05:43	50		
19:05:43	50		
19:05:43	50		
19:05:44	50		
19:05:44	50		
19:05:44	50		
19:05:44	50		
19:05:44	50		
19:05:44	50		
19:05:44	50		
19:05:44	50		
19:05:44	50		

v. Interval Sampling 200ms, from 50,0 Hz to 50,7 Hz

JAM	HZ
19:06:35	50
19:06:35	50
19:06:35	50
19:06:35	50

JAM	HZ
19:06:42	50,03
19:06:42	50,03
19:06:43	50,03
19:06:43	50,03

19:06:35	50
19:06:36	50
19:06:36	50
19:06:36	50
19:06:36	50
19:06:36	50
19:06:37	50
19:06:37	50
19:06:37	50
19:06:37	50,09
19:06:37	50,09
19:06:38	50,09
19:06:38	50,09
19:06:38	50,09
19:06:38	50,09
19:06:38	50,09
19:06:38	50,09
19:06:39	50,7
19:06:39	50
19:06:39	50
19:06:39	50
19:06:39	50
19:06:40	50
19:06:40	50
19:06:40	50
19:06:40	50
19:06:40	50
19:06:41	50
19:06:41	50
19:06:41	50
19:06:41	50
19:06:41	50
19:06:42	50
19:06:42	50
19:06:42	50,03

19:06:43	50
19:06:43	50
19:06:44	50
19:06:44	50
19:06:44	50
19:06:44	50
19:06:44	50
19:06:44	50
19:06:45	50
19:06:45	50
19:06:45	50
19:06:45	50
19:06:45	50
19:06:45	50
19:06:45	50
19:06:46	50
19:06:46	50
19:06:46	50
19:06:46	50

w. Interval Sampling 300ms, from 50,0 Hz to 50,7 Hz

JAM	HZ
19:07:16	50
19:07:16	50

JAM	HZ
19:07:22	50
19:07:22	50

19:07:16	50
19:07:17	50
19:07:17	50
19:07:17	50,07
19:07:18	50,07
19:07:18	50,07
19:07:18	50,07
19:07:18	50,07
19:07:19	50,07
19:07:19	50,07
19:07:19	50,07
19:07:20	50,49
19:07:20	50,07
19:07:20	50,16
19:07:21	50,16
19:07:21	50,16
19:07:21	50

19:07:22	50
19:07:22	50
19:07:23	50
19:07:23	50
19:07:23	50
19:07:24	50
19:07:24	50
19:07:24	50
19:07:25	50
19:07:25	50
19:07:25	50
19:07:26	50
19:07:26	50
19:07:26	50
19:07:27	50
19:07:27	50
19:07:27	50

x. Interval Sampling 400ms, from 50,0 Hz to 50,7 Hz

JAM	HZ
19:07:49	50
19:07:50	50
19:07:50	50
19:07:50	50
19:07:51	50
19:07:51	50
19:07:52	50
19:07:52	50
19:07:52	50
19:07:53	50
19:07:53	50
19:07:54	50
19:07:54	50
19:07:54	50
19:07:55	50

JAM	HZ
19:07:55	50
19:07:56	50
19:07:56	50
19:07:56	50
19:07:57	50
19:07:57	50
19:07:58	50
19:07:58	50
19:07:59	50
19:07:59	50
19:07:59	50
19:08:00	50
19:08:00	50
19:08:01	50
19:08:01	50

y. Interval Sampling 500ms, from 50,0 Hz to 50,7 Hz

JAM	HZ
19:08:30	50
19:08:31	50
19:08:31	50
19:08:32	50
19:08:32	50
19:08:33	50
19:08:33	50
19:08:34	50
19:08:34	50
19:08:35	50
19:08:35	50
19:08:36	50
19:08:36	50
19:08:37	50
19:08:37	50
19:08:38	50
19:08:39	50

z. Interval Sampling 600ms, from 50,0 Hz to 50,7 Hz

JAM	HZ
19:09:21	50
19:09:21	50
19:09:22	50
19:09:22	50
19:09:23	50
19:09:24	50
19:09:24	50
19:09:25	50
19:09:26	50
19:09:26	50
19:09:27	50
19:09:27	50
19:09:28	50
19:09:29	50
19:09:29	50
19:09:30	50
19:09:30	50

JAM	HZ
19:09:32	50
19:09:33	50
19:09:36	50
19:09:37	50
19:09:37	50
19:09:38	50
19:09:39	50
19:09:39	50
19:09:40	50,39
19:09:40	50,7
19:09:41	50,7
19:09:42	50,7
19:09:42	50,7
19:09:43	50,7
19:09:43	50,7
19:09:44	50,7
19:09:45	50,28

19:09:31	50
19:09:32	50

19:09:45	50
19:09:46	50

aa. Interval Sampling 700ms, from 50,0 Hz to 50,7 Hz

JAM	HZ
19:10:21	50
19:10:22	50
19:10:22	50
19:10:23	50
19:10:24	50
19:10:24	50
19:10:25	50
19:10:26	50
19:10:27	50
19:10:27	50
19:10:28	50
19:10:29	50
19:10:29	50

JAM	HZ
19:10:30	50
19:10:31	50
19:10:31	50
19:10:32	50
19:10:33	50
19:10:34	50
19:10:34	50
19:10:35	50
19:10:36	50
19:10:36	50
19:10:37	50
19:10:38	50

bb. Interval Sampling 800ms, from 50,0 Hz to 50,7 Hz

JAM	HZ
19:10:55	50
19:10:56	50
19:10:56	50
19:10:57	50
19:10:58	50
19:10:59	50
19:11:00	50
19:11:00	50
19:11:01	50
19:11:02	50
19:11:03	50

JAM	HZ
19:11:04	50
19:11:04	50
19:11:05	50,37
19:11:06	50,37
19:11:07	50
19:11:08	50
19:11:09	50
19:11:09	50
19:11:10	50
19:11:11	50

cc. Interval Sampling 1900ms, from 50,0 Hz to 50,7 Hz

JAM	HZ
19:11:31	50
19:11:31	50
19:11:32	50
19:11:33	50
19:11:34	50
19:11:35	50
19:11:36	50
19:11:37	50
19:11:38	50
19:11:39	50
19:11:40	50
19:11:41	50
19:11:41	50
19:11:42	50

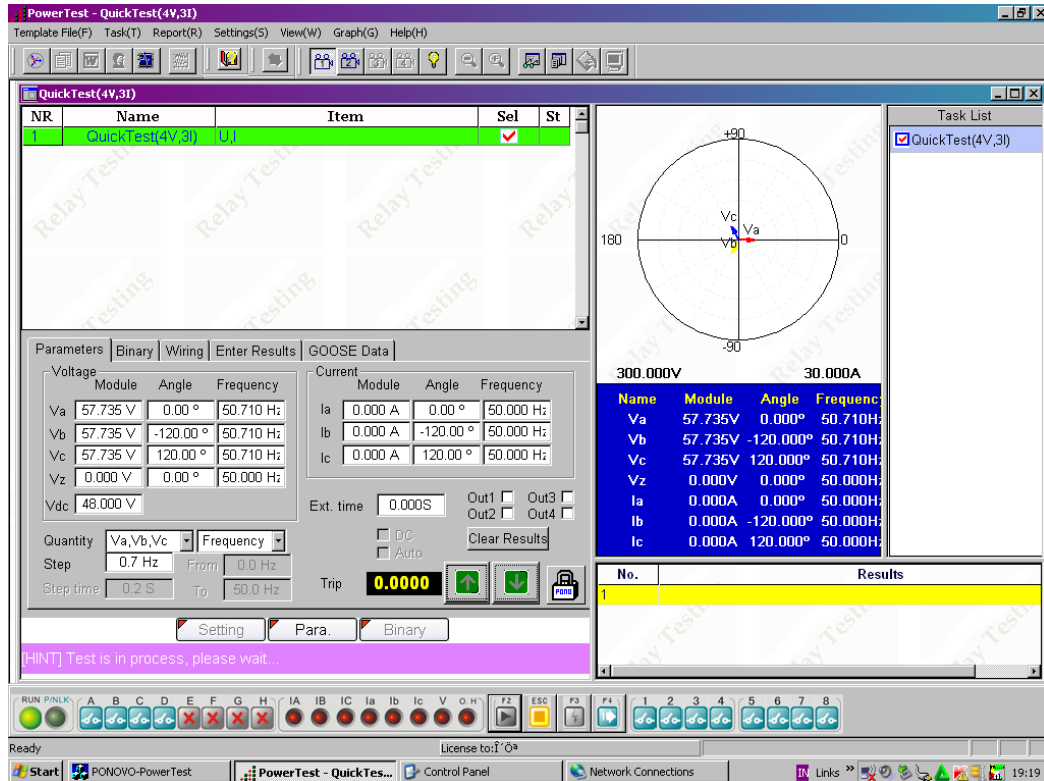
dd. Interval Sampling 1000ms, from 50,0 Hz to 50,7 Hz

JAM	HZ
19:12:04	50
19:12:05	50
19:12:06	50
19:12:07	50
19:12:08	50
19:12:09	50
19:12:10	50
19:12:11	50
19:12:12	50
19:12:13	50
19:12:15	50
19:12:16	50
19:12:17	50

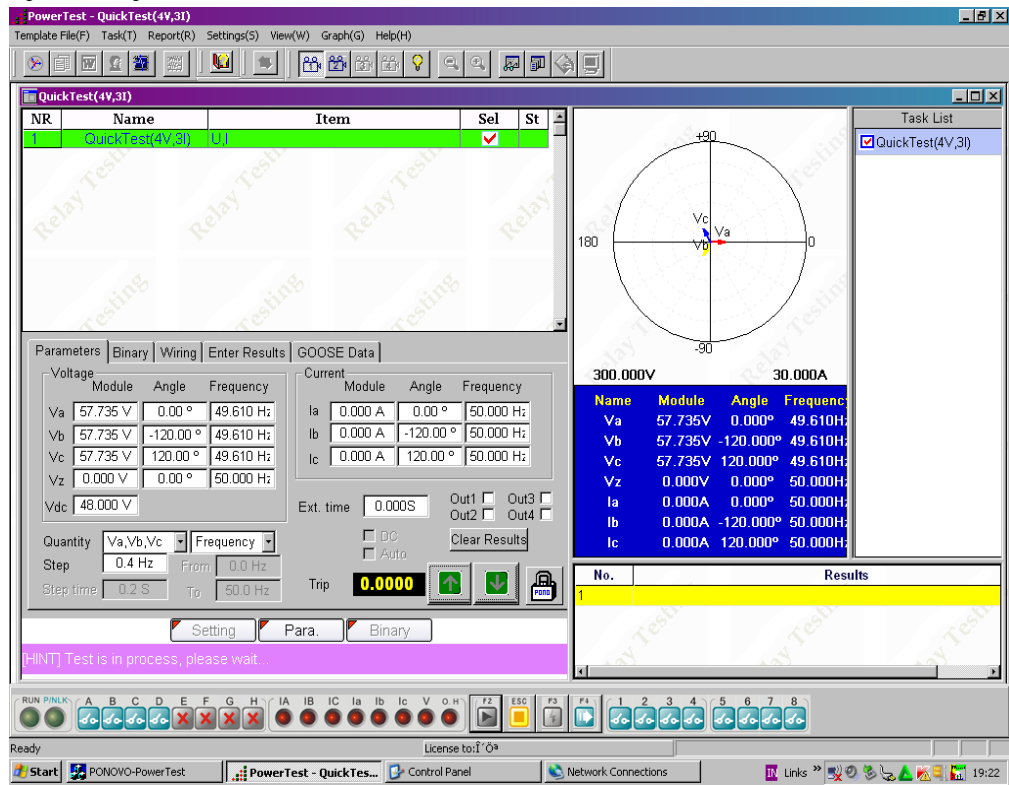
Lampiran 3

Gambar Percobaan Uji Tes :

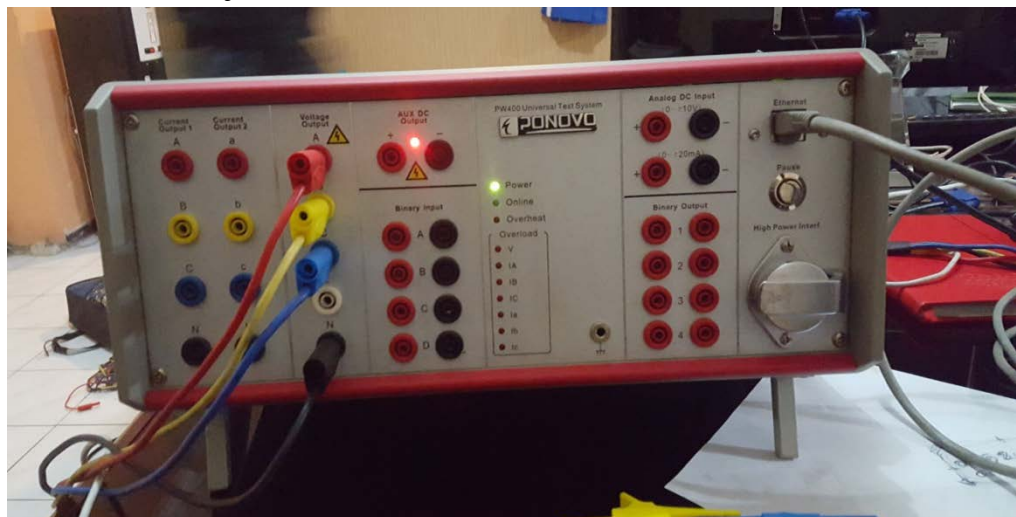
a. Uji Tes Injektor Frekuensi High (PONOVO PW 460)



b. Uji Tes Injektor Frekuensi Low (PONOVO PW 460)



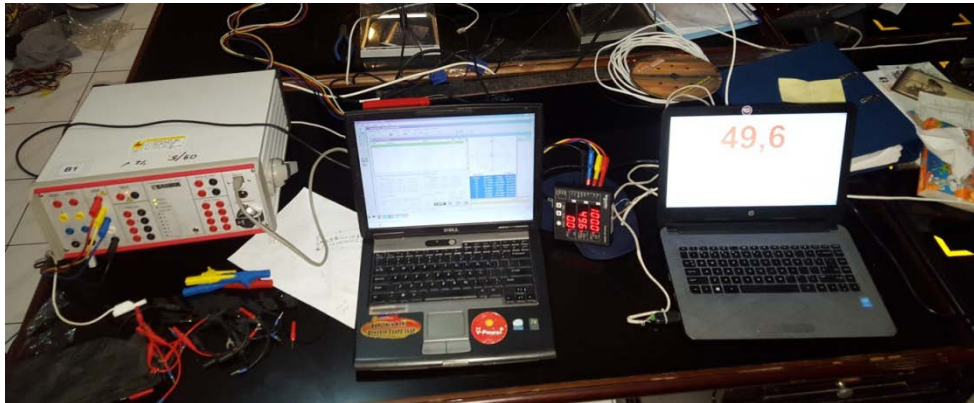
c. Alat Frekuensi Injektor



d. Uji Tes 1



e. Uji Tes 2



f. Uji Tes 3



g. Uji tes 4



h. Uji Tes 5

