

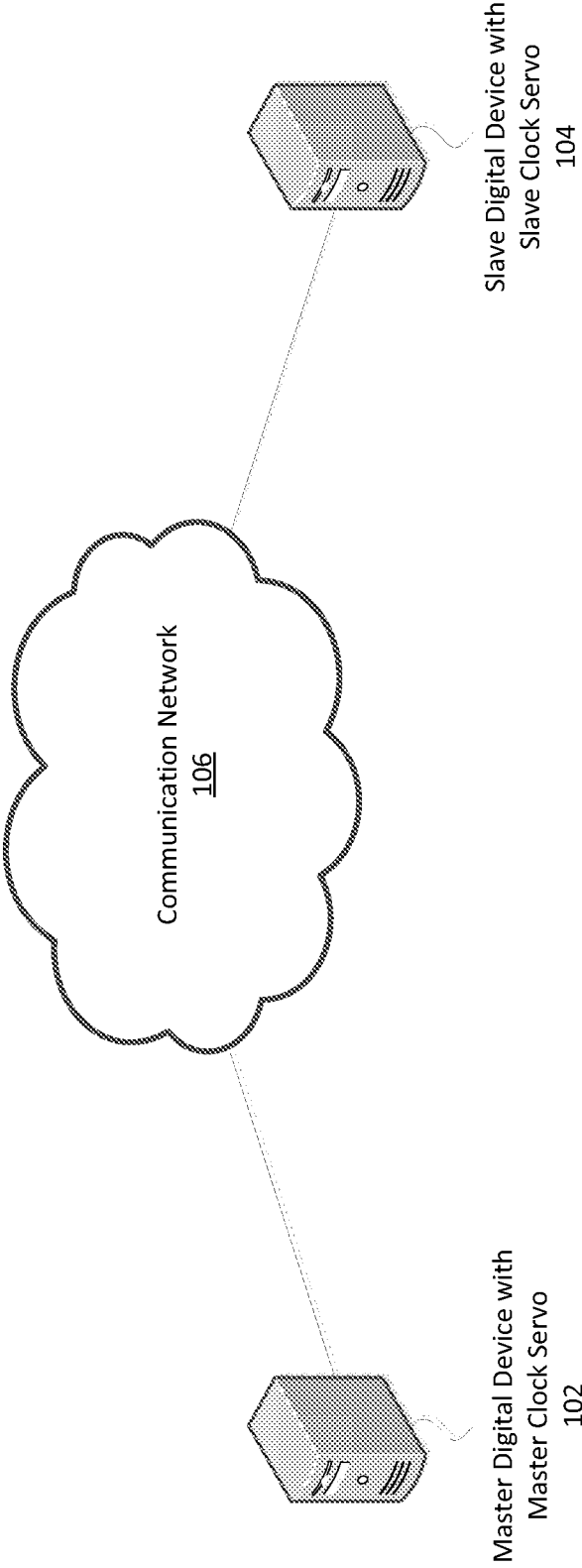


FIG. 1

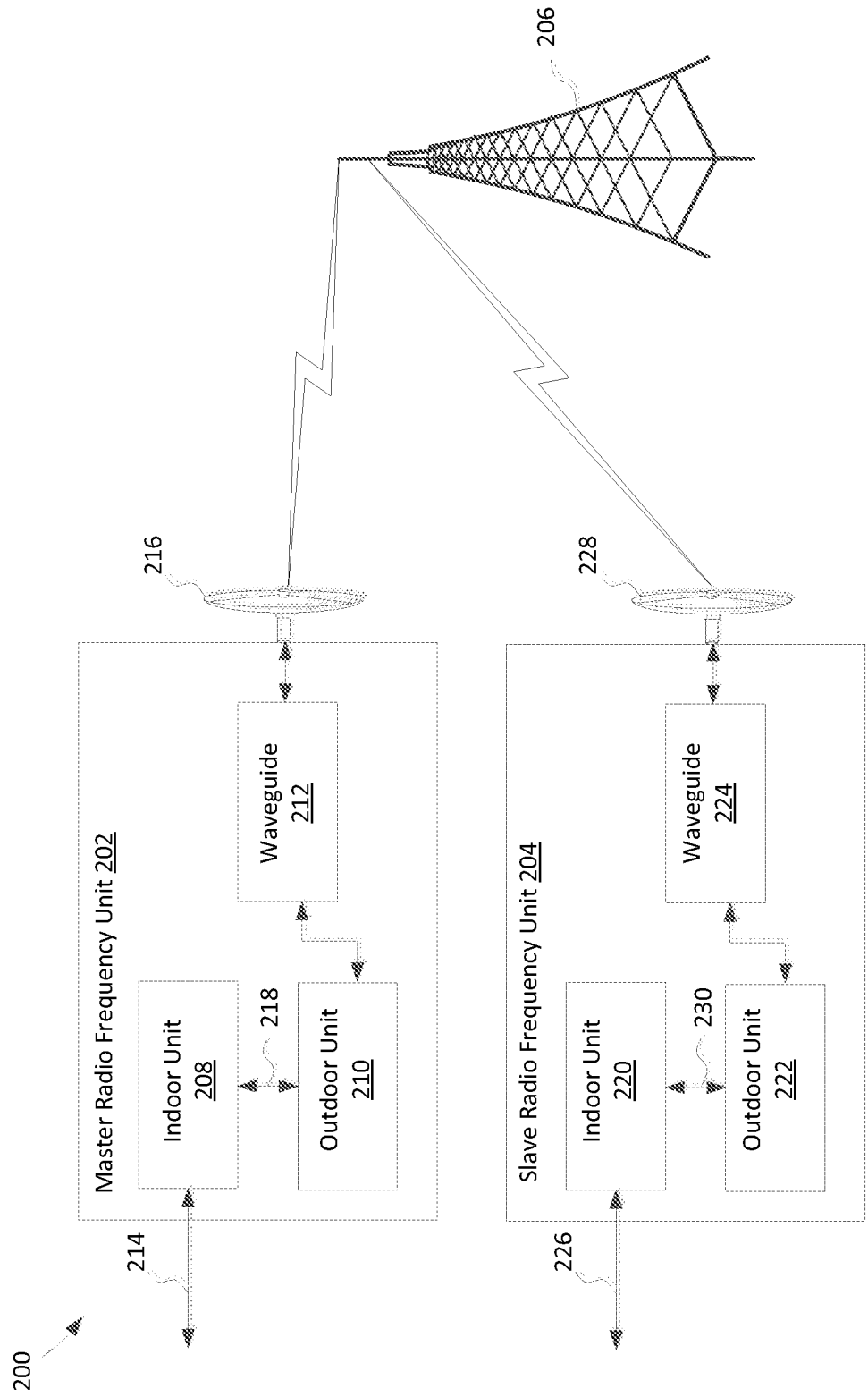


FIG. 2

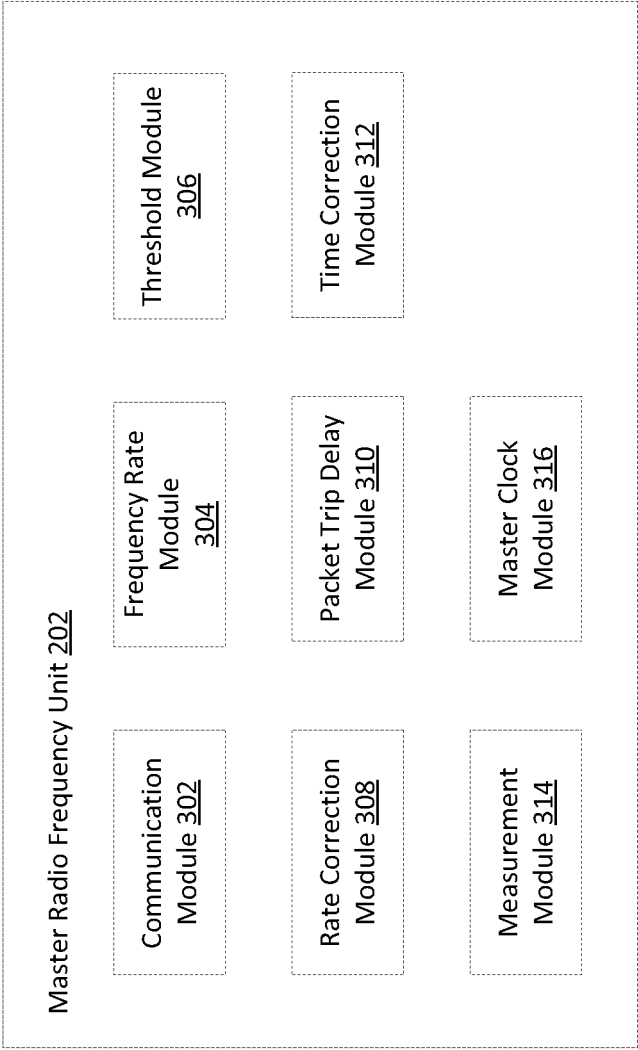


FIG. 3

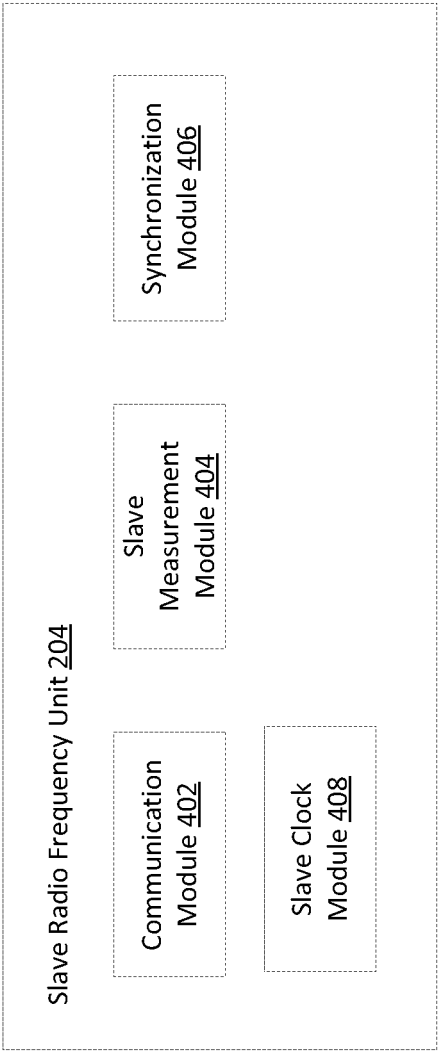


FIG. 4

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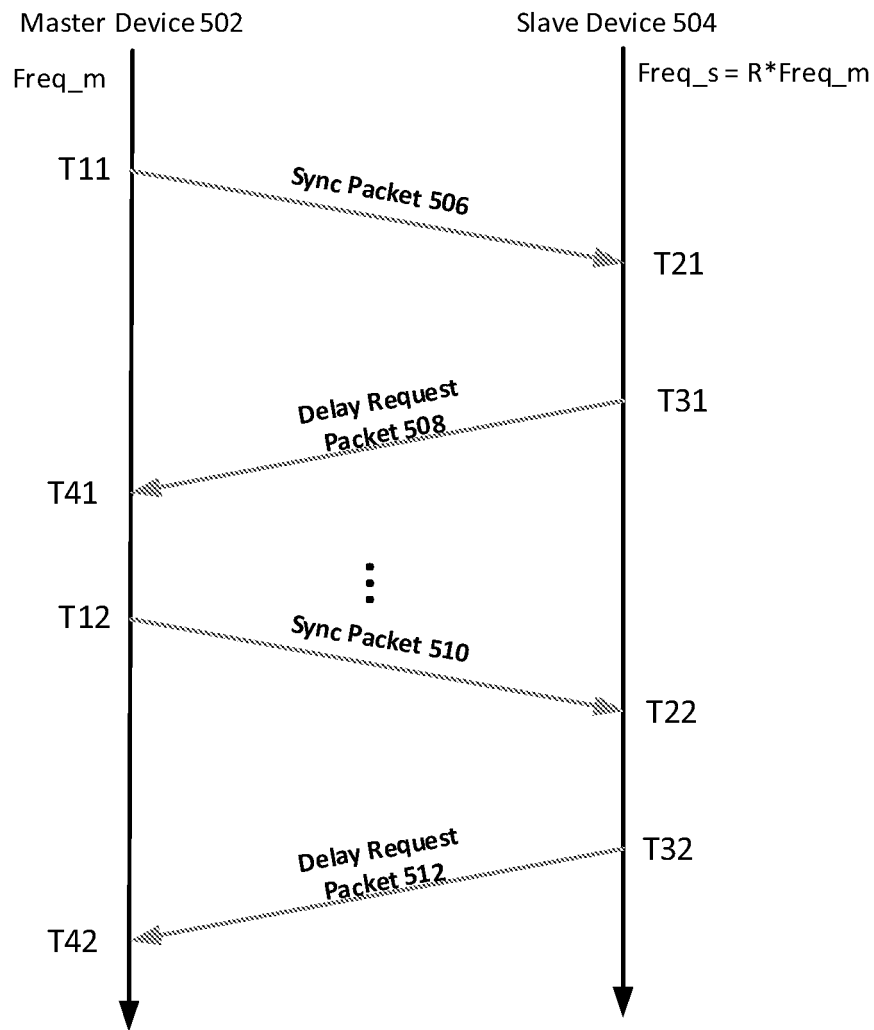


FIG. 5

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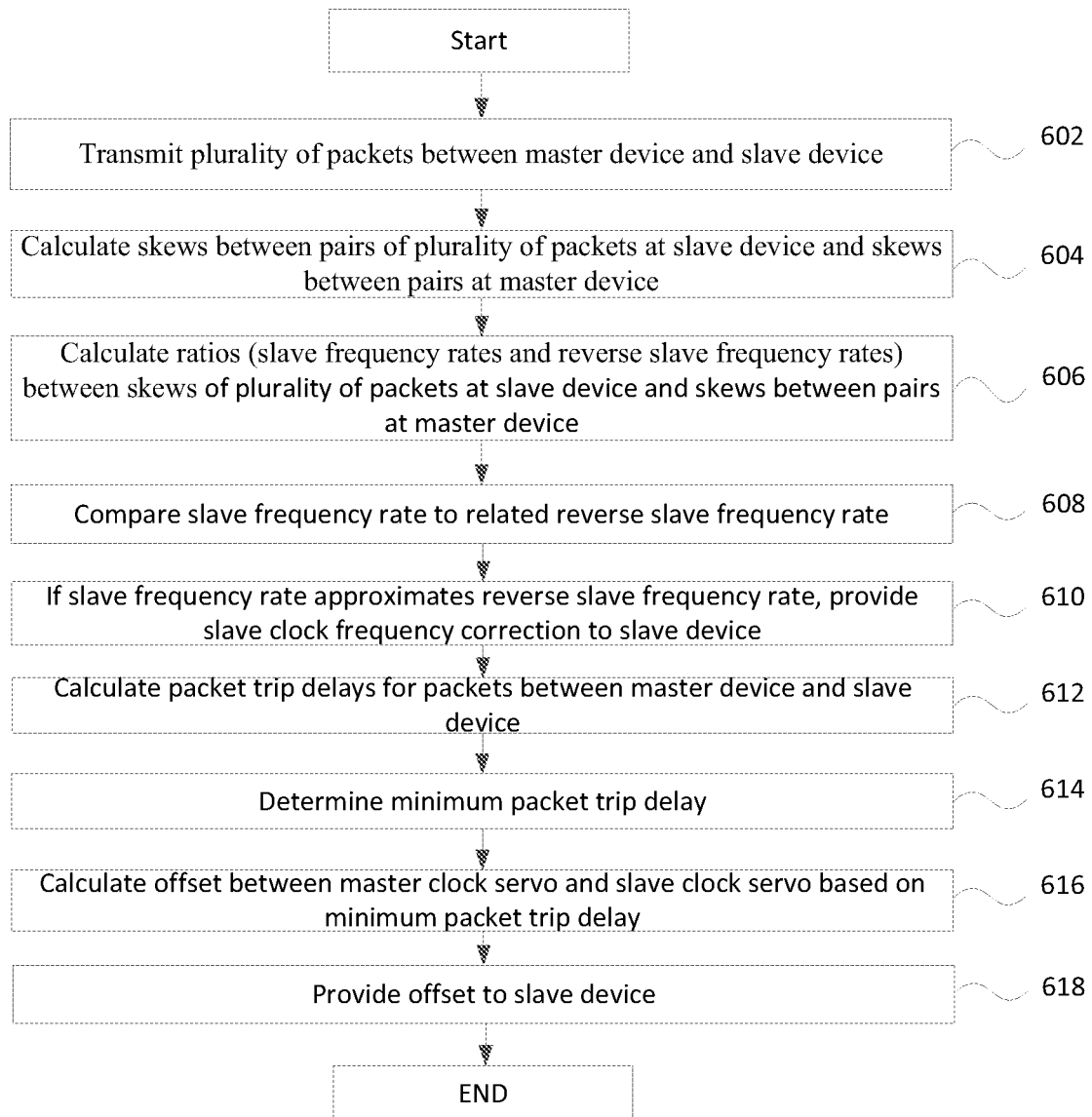


FIG. 6

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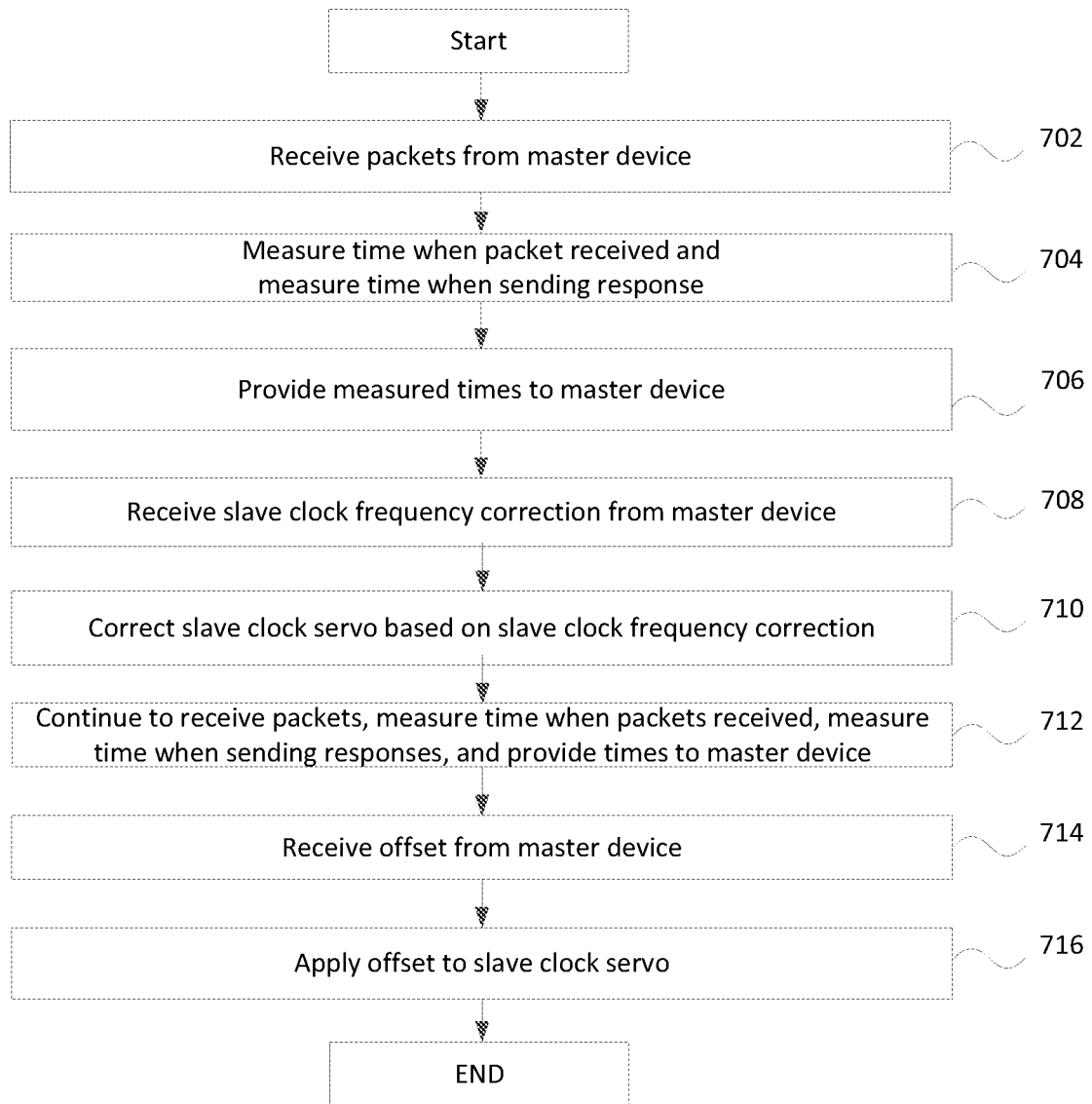


FIG. 7

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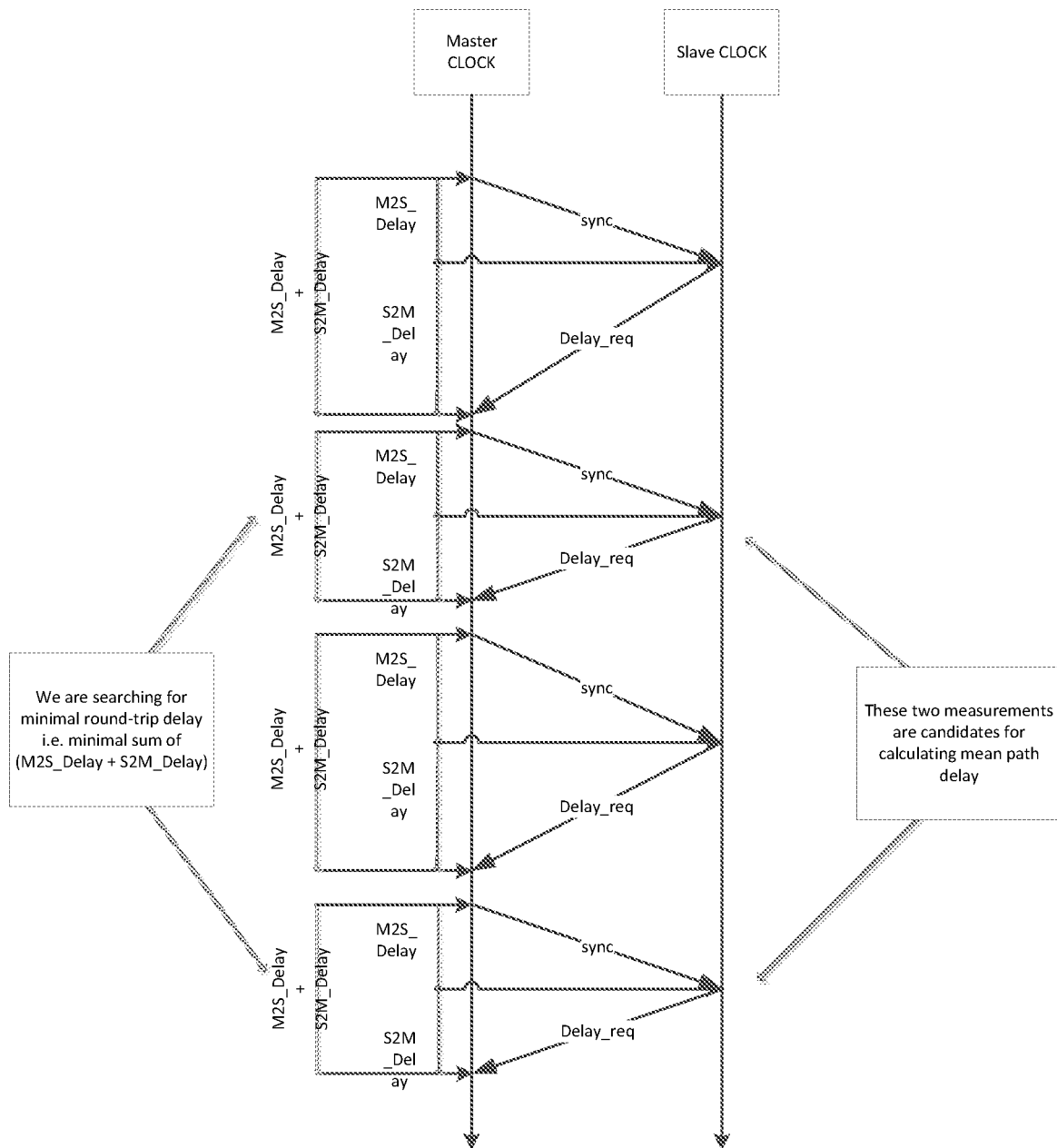


FIG. 8

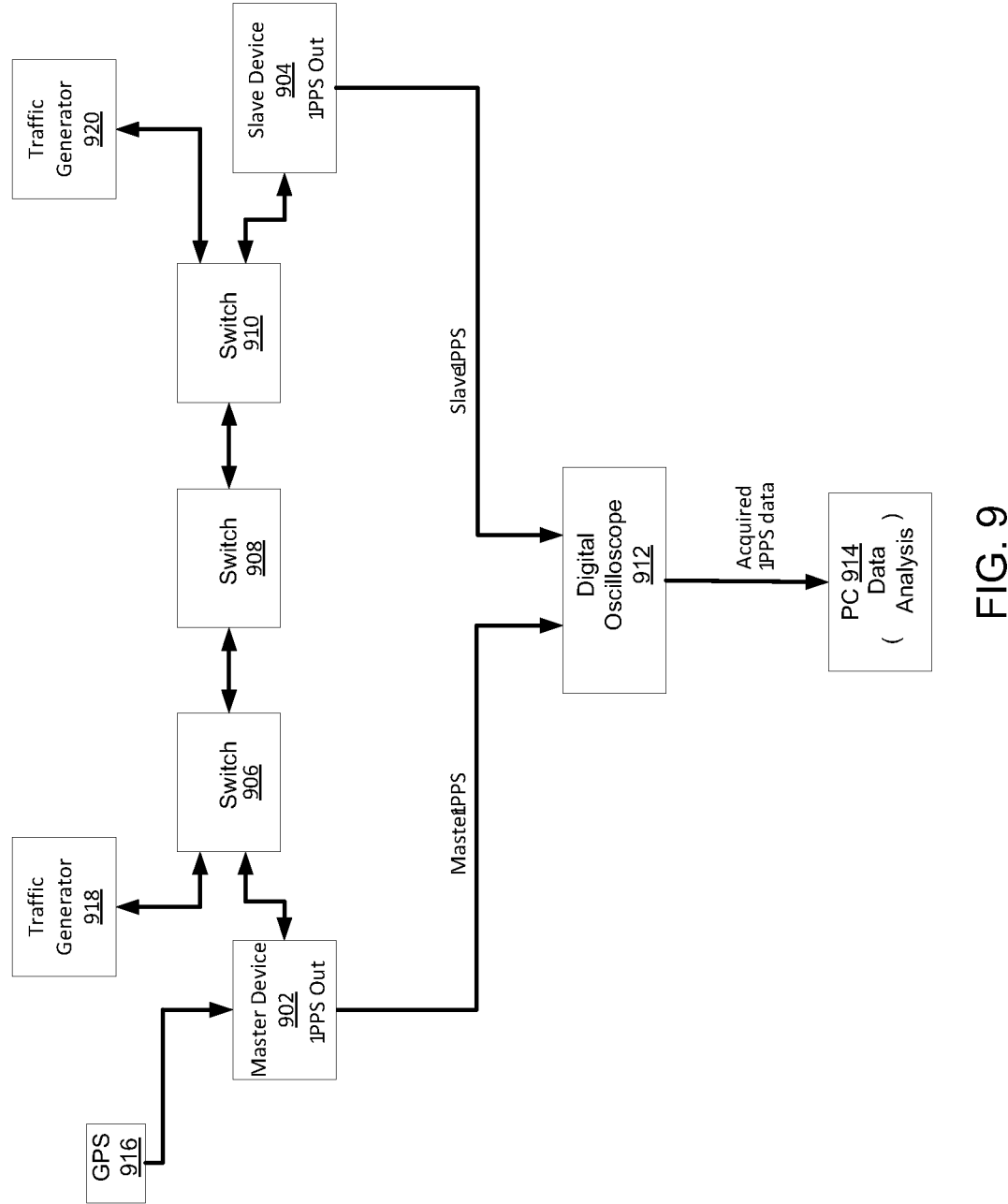


FIG. 9

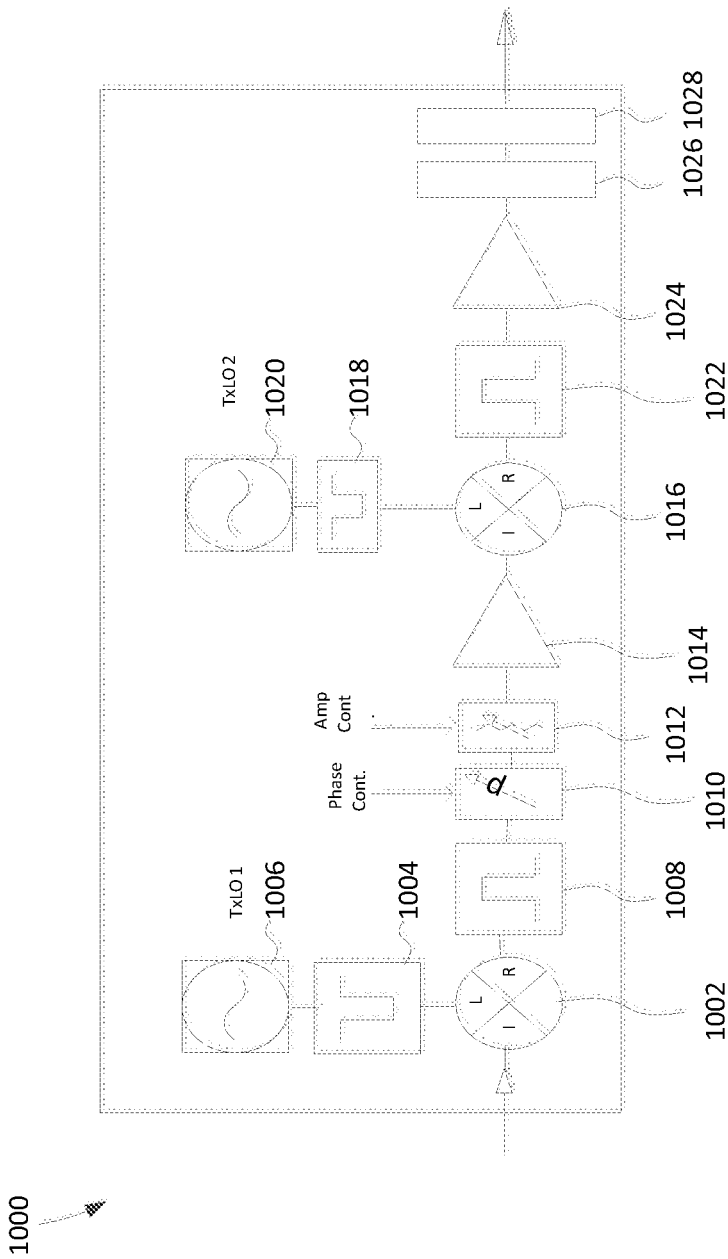


FIG. 10

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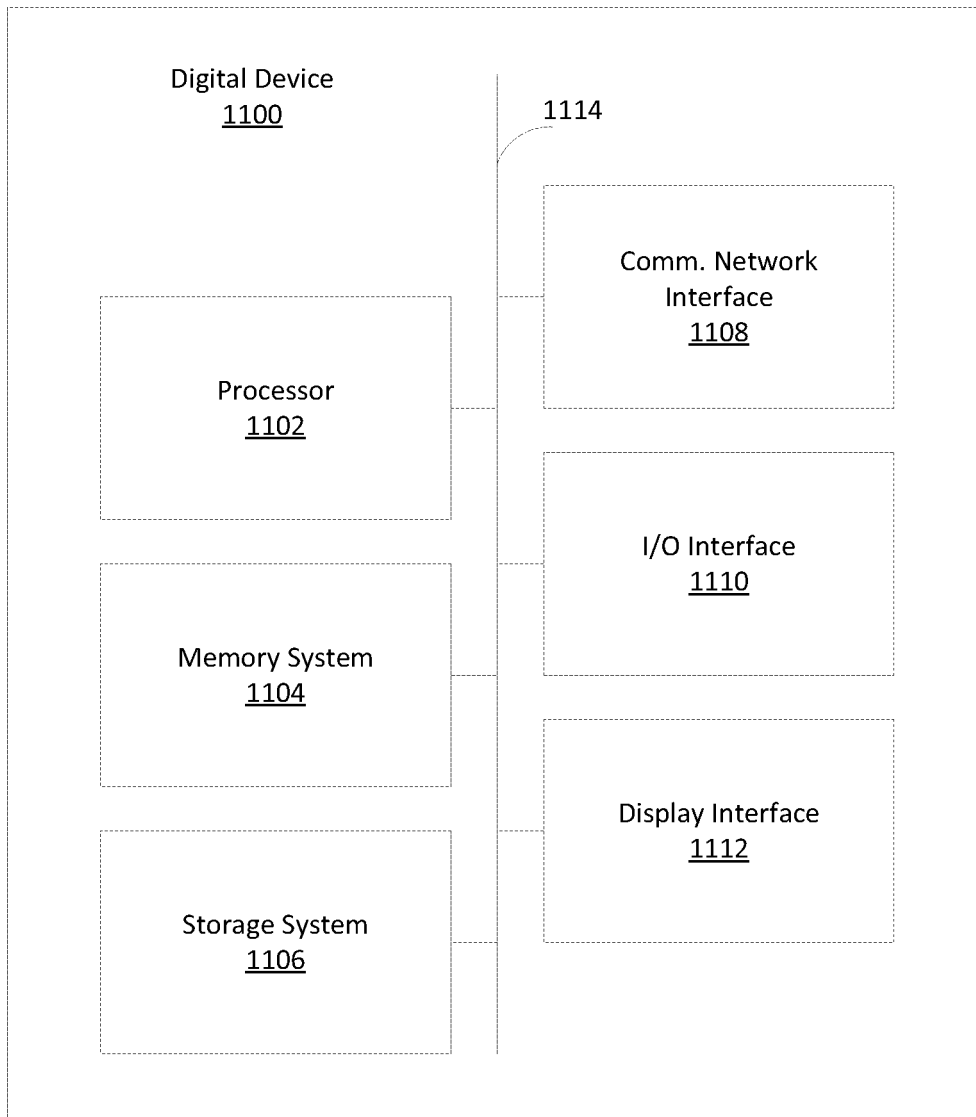


FIG. 11

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switch num	traffic [%]	traffic type	std dev	min Off[ns]	max Off[ns]	mean off[ns]	max ΔMPP[ns]	Sync MPP/s	time[s]
1	0	/	31.3	-210	103	-39.1	140	8	10638
1	0	/	24.7	-210	214.5	-37.6	140	8	160000
1	100	UDP	23.7	-242	143	-39.3	140	8	47480
1	10	UDP	33.5	-227	181	-40.9	140	8	12161
1	20	UDP	99.6	-437	483	-38.8	140	8	8214
2	0	/	150	-497	501	-33.2	140	8	3032
2	0	/	70	-570	516	-36	180	8	9300
2	20	UDP	70	-418	320	-38.6	180	8	48329
2	50	UDP	125	-998	1000	-44.6	180	8	23387
2	0	/	38.2	-259	129	-44.6	180	50	8916
2	20	UDP	58.5	-283	107	-42.5	180	50	6939
2	50	UDP	150	-1525	2435	-35.7	180	50	9196
2	50	UDP	39.3	-274	229	-43	180	50	23236
2	80	UDP	32.4	-491	490	-42.7	180	50	23670
2	80	UDP	39.5	-491	490	-43.1	180	50	83030
3	0	/	65.7	-113	491	179	180	50	14461
1	20	UDP	19.9	-41	314	168	180	50	85553
1	50	UDP	20.5	-55	360	168	180	50	96696
1	80	UDP	20.4	-69	311	168	180	50	81583

FIG. 12

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Max delta mean path delay = 140

1. 8 sync msg/s, 1 switch between master
and slave

varOff = 9.796e-016

stdDev = 31.3ns

minOff = -210ns

maxOff = 103ns

meanOff = -39.1ns

deltaNS1 = 313ns

measureNum = 10658

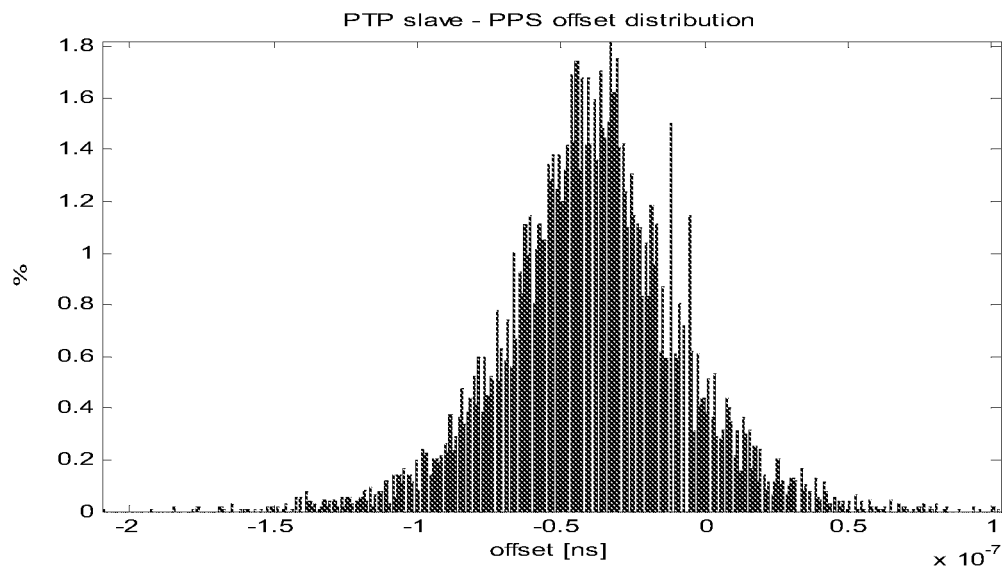
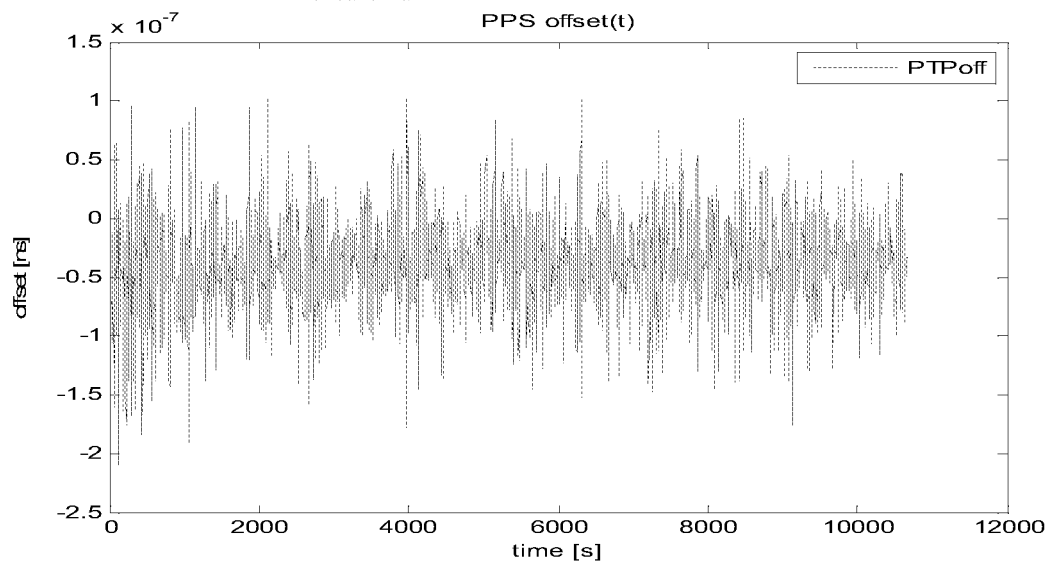


FIG. 13

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2. 8 sync msg/s, 1 switch between master and slave

varOff = 8.256e-016

stdDev = 28.7ns

minOff=-210ns

maxOff=214.5ns

meanOff=-37.6ns

deltaNS1=424.5ns

measureNum = 100000

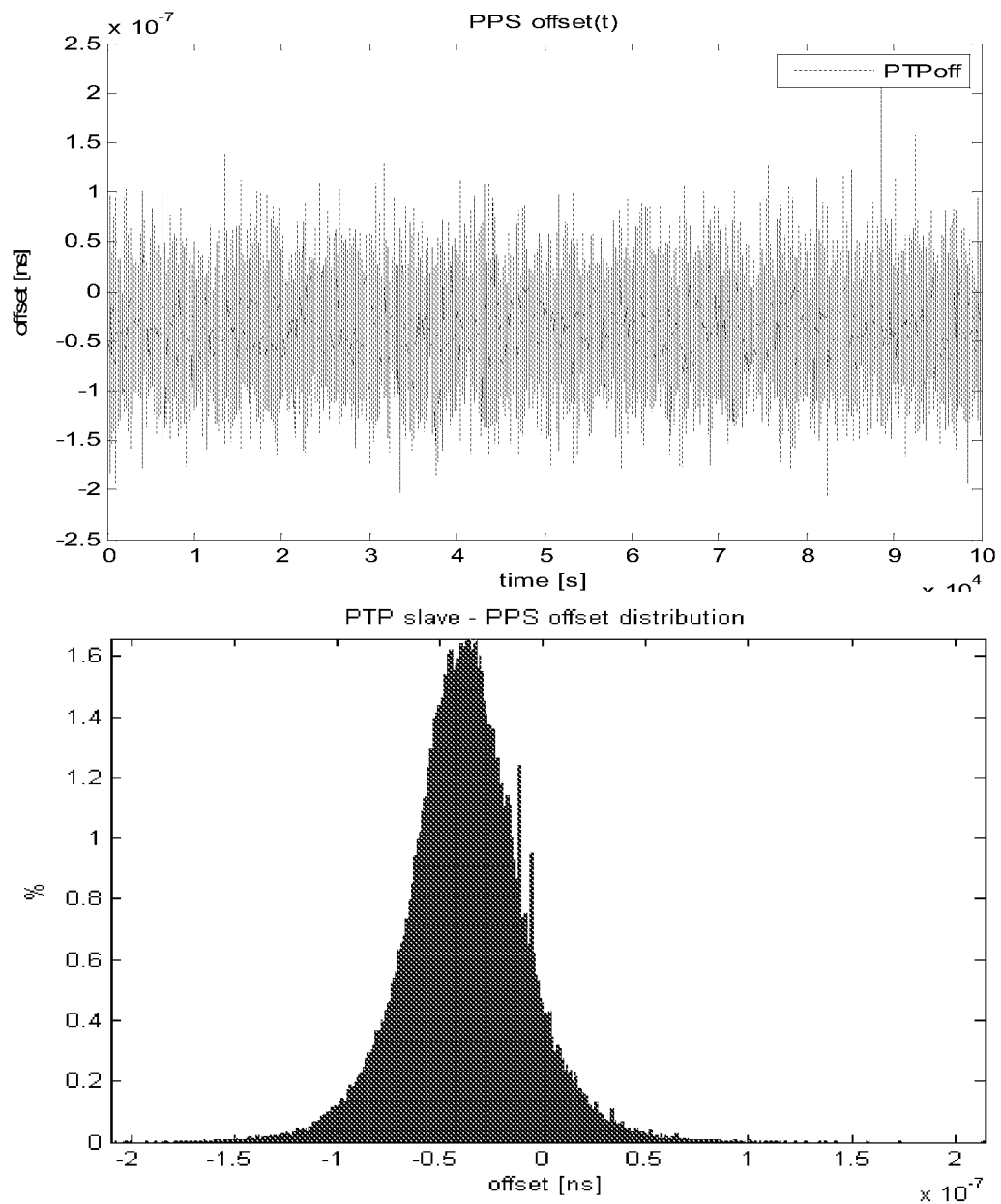


FIG. 14

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3. 8 sync msg/s, 1 switch between master and slave, 100Mbit/s UDP forced traffic
varOff=8.22e-016
stdDev=28.7ns
minOff=-242ns
maxOff=143ns
meanOff=-38.3ns
deltaNS1=385ns
measureNum = 47480

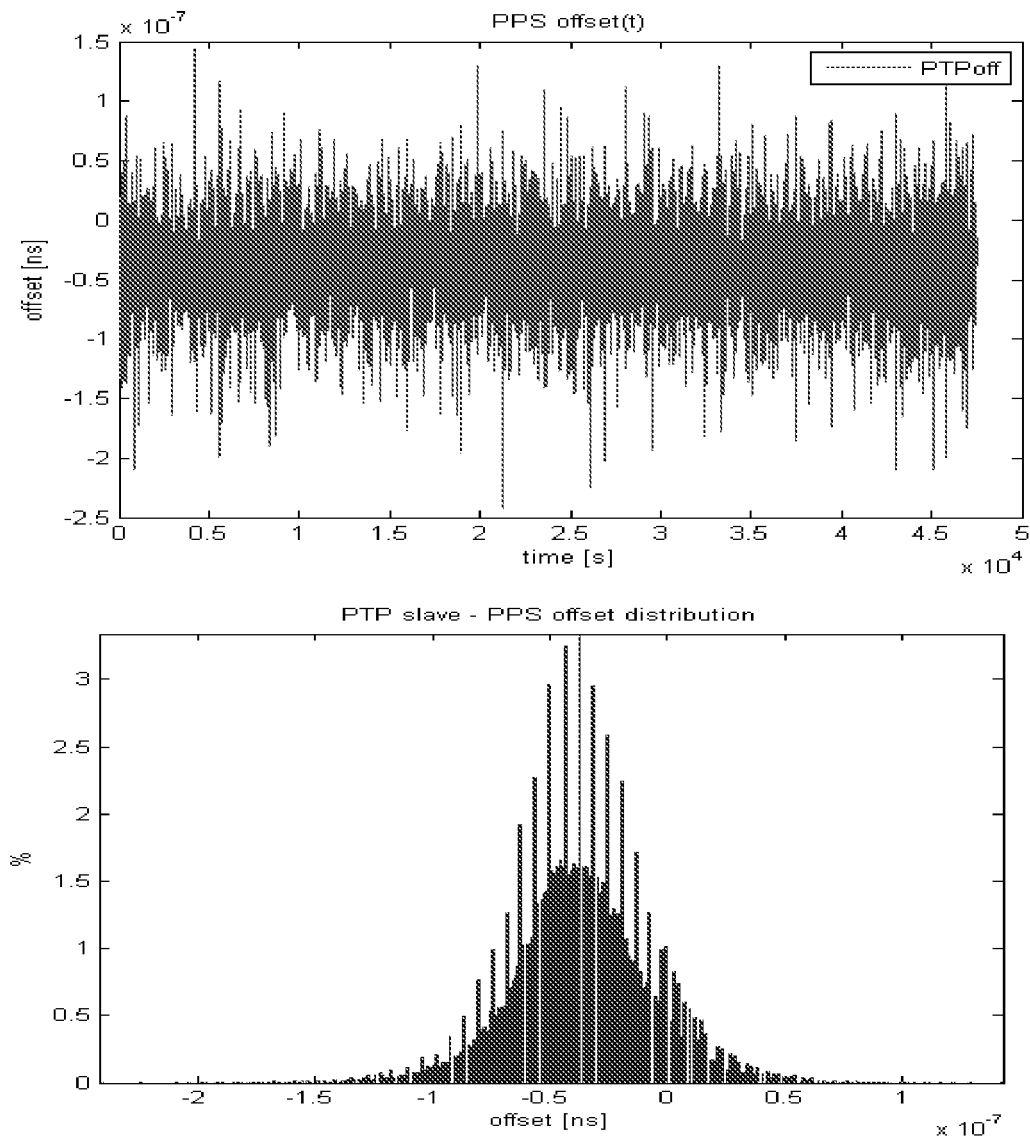


FIG. 15

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4. 8 sync msg/s, 1 switch between master and slave, 10Mbit/s broadcast UDP forced traffic
varOff=1.123e-015
stdDev=33.5ns
minOff=-227ns
maxOff=181ns
meanOff=-40.9ns
deltaNS1=408ns
measureNum = 12141

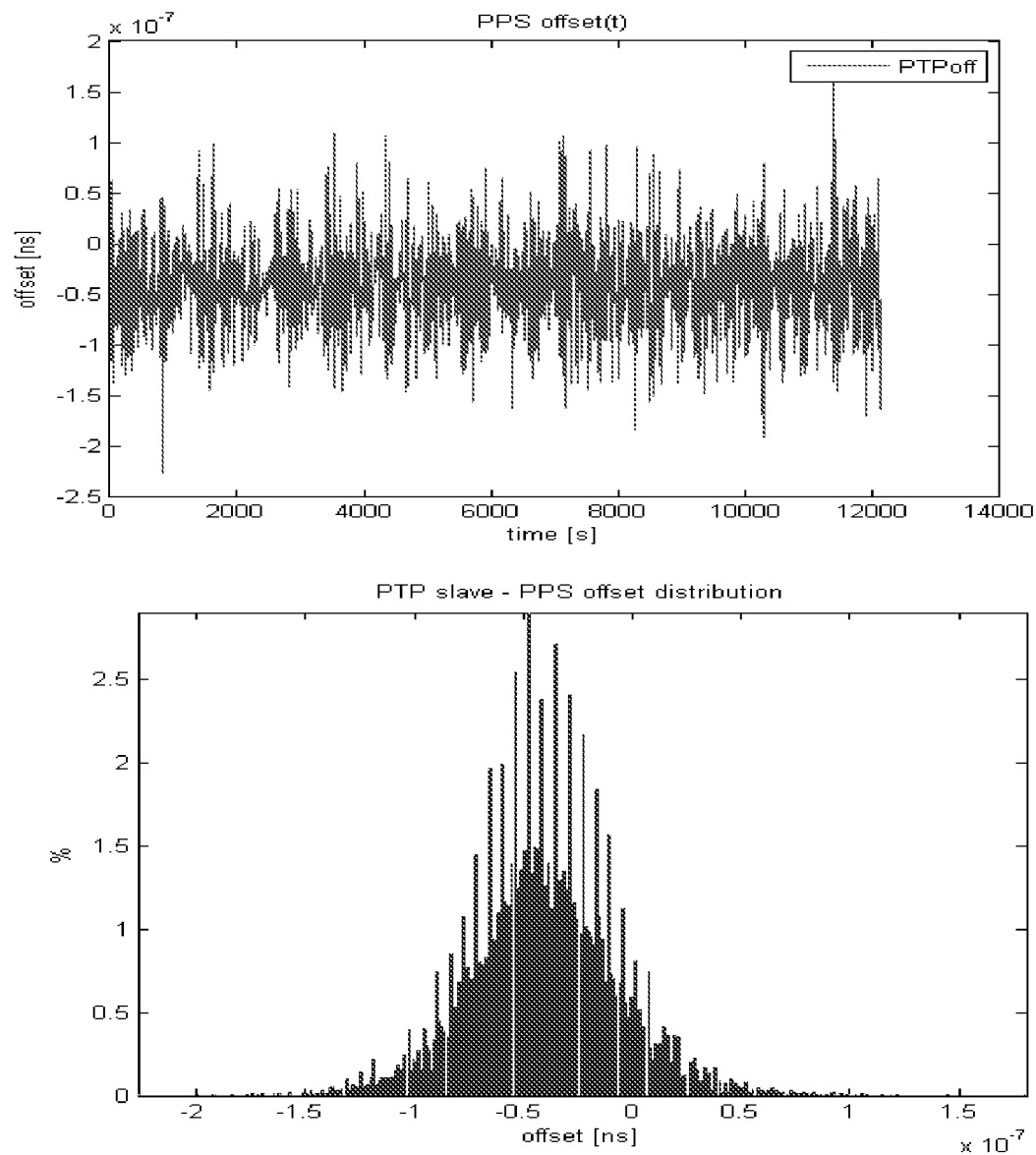


FIG. 16

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5. 8 sync msg/s, 1 switch between master and
slave, 20Mbit/s broadcast UDP forced traffic
varOff= 9.93e-015
stdDev= 99.6ns
minOff= -497ns
maxOff= 489ns
meanOff= -38.8ns
deltaNS1= 986
measureNum = 8214

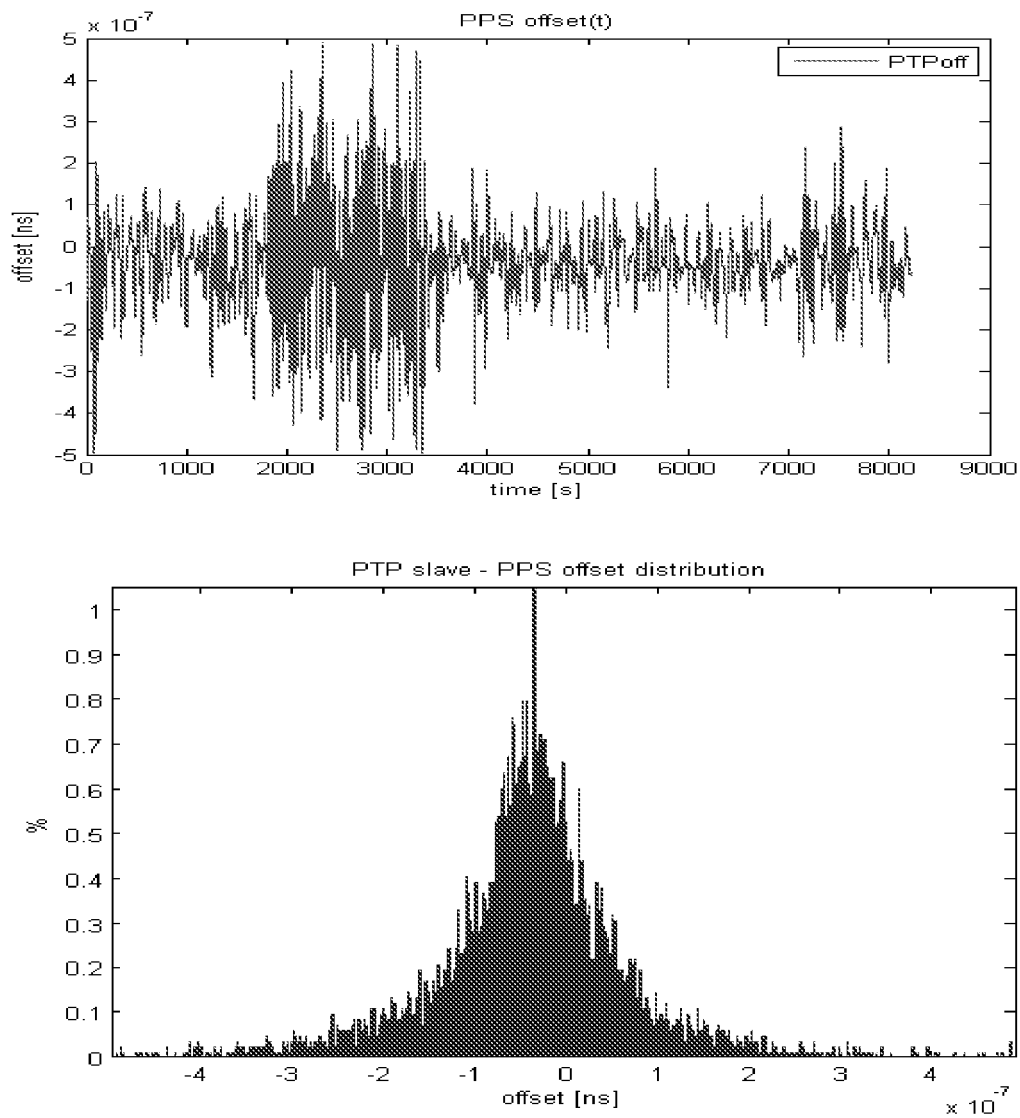


FIG. 17

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6. 8 sync msg/s, 2 switches between master and slave
varOff=2.23e-014
stdDev=150ns
minOff=-497ns
maxOff=501ns
meanOff=-33.2ns
deltaNS1=998ns
measureNum = 3832

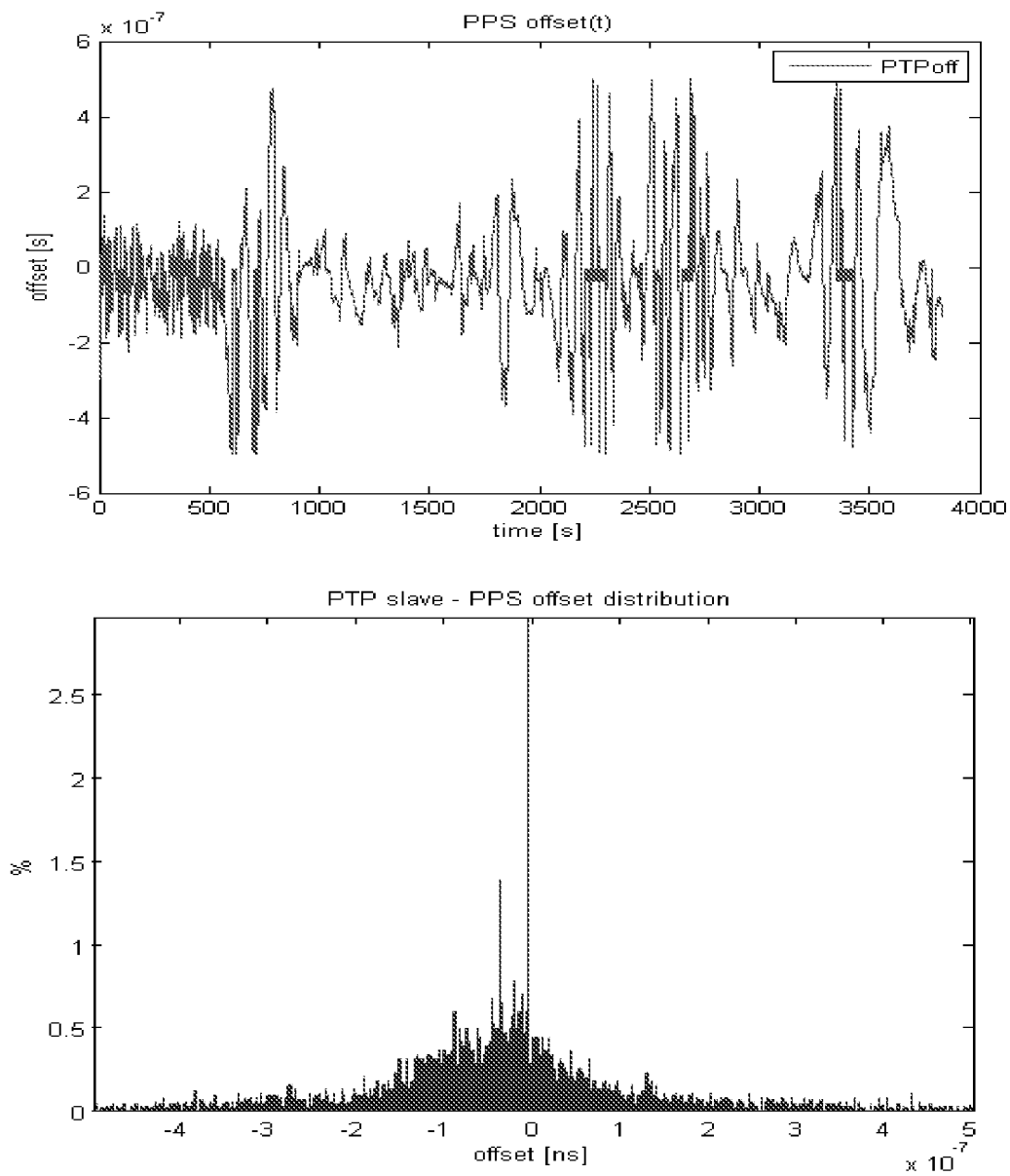


FIG. 18

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Max delta mean path delay = 180ns

1. 8 sync msg/s, 2 switches between master and slave

varOff=4.91e-015

stdDev=70ns

minOff=-570ns

maxOff=516ns

meanOff=-36ns

deltaNS1=1086ns

measureNum = 9300

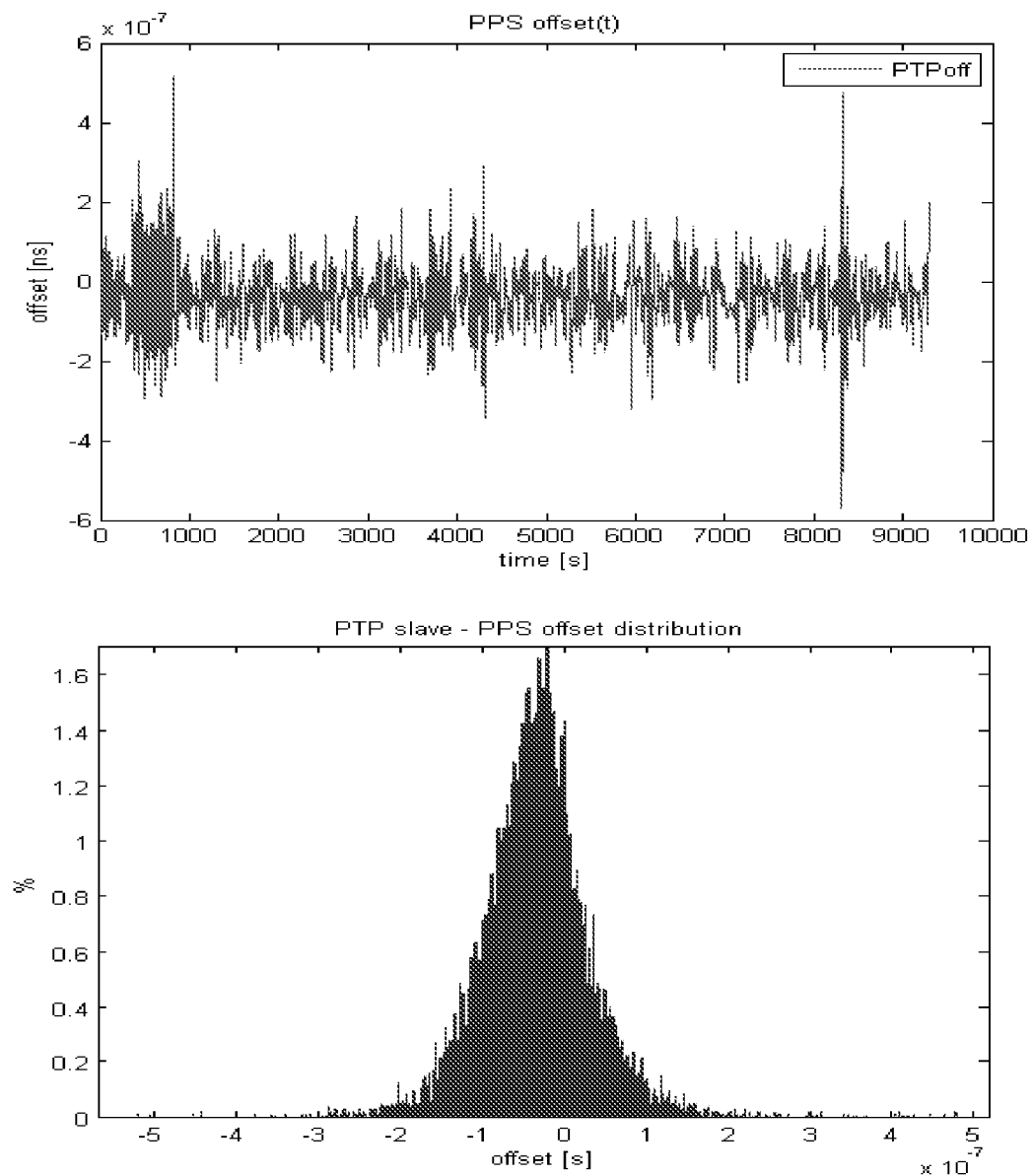


FIG. 19

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2. 8 sync msg/s, 2 switches between master and slave, 20Mbit/s UDP forced traffic
varOff=3.84e-015
stdDev=70ns
minOff=-418ns
maxOff=320ns
meanOff=-38.6ns
deltaNS1=738ns
measureNum = 48329

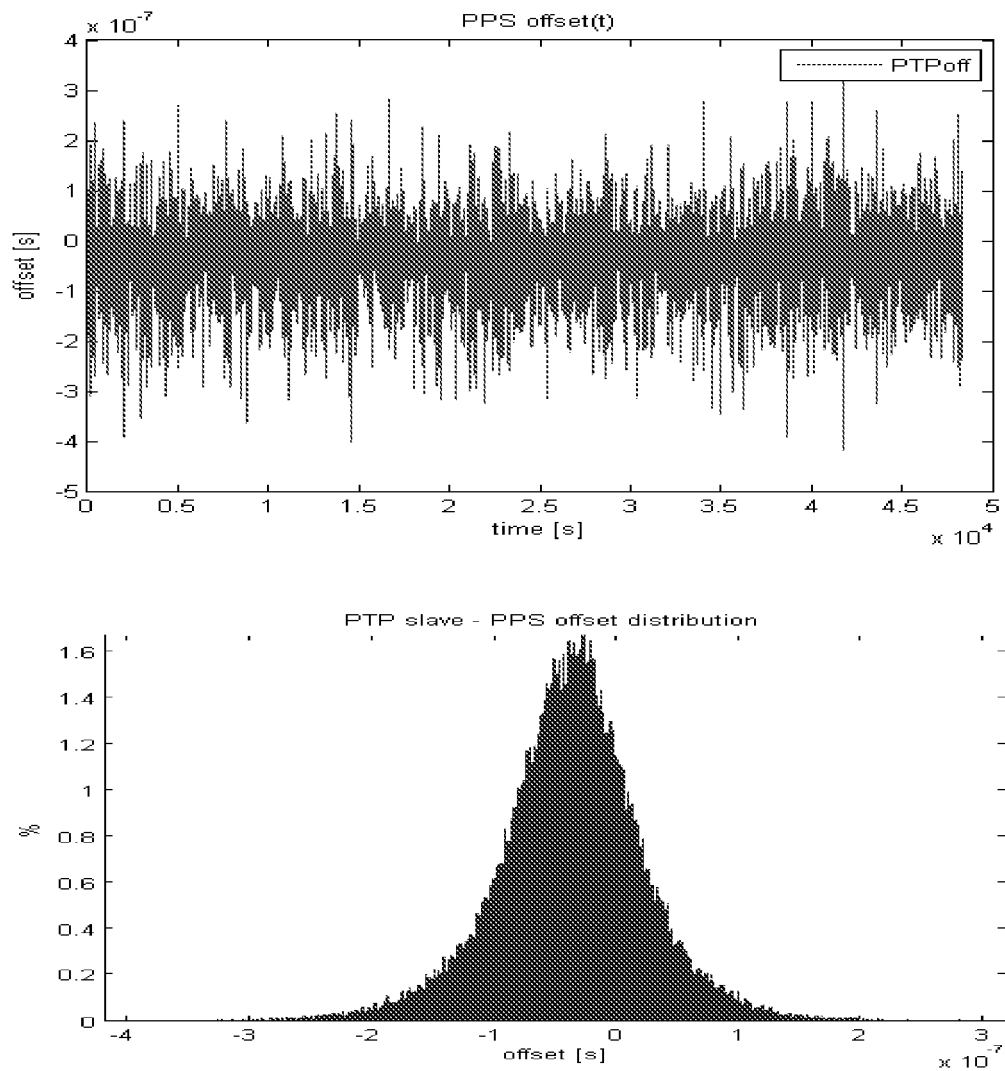


FIG. 20

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3. 8 sync msg/s, 2 switches between master and slave, 50Mbit/s UDP forced traffic
varOff=1.57e-014
stdDev=125ns
minOff=-998ns
maxOff=1000ns
meanOff=-44.6ns
deltaNS1=1998ns
measureNum = 23387

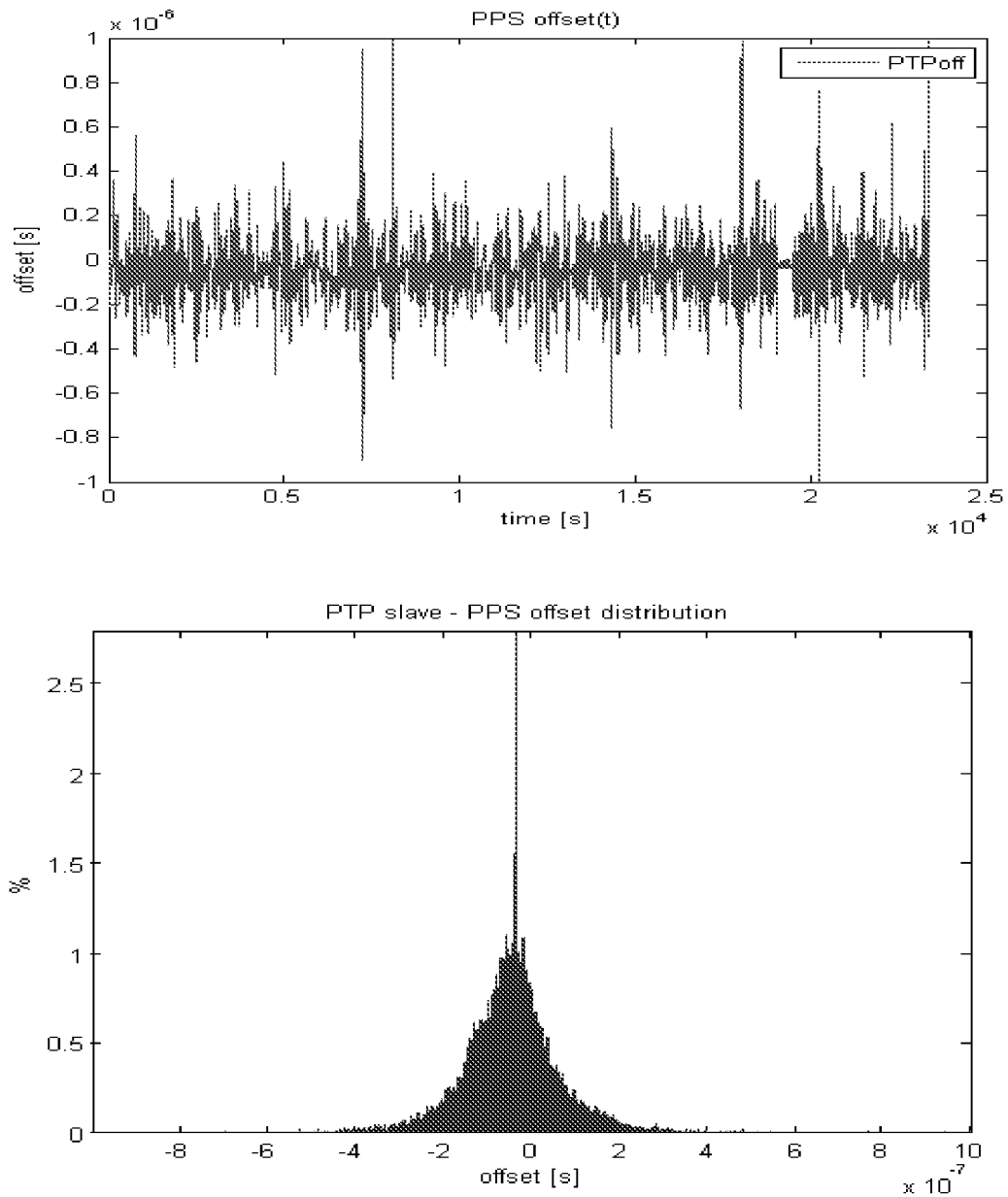


FIG. 21

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4. 50 sync msg/s, 2 switches between master and slave
varOff=1.53604e-015
stdDev=39.2ns
minOff=-259ns
maxOff=129ns
meanOff=-44.6ns
deltaNS1=388ns
measureNum = 6916

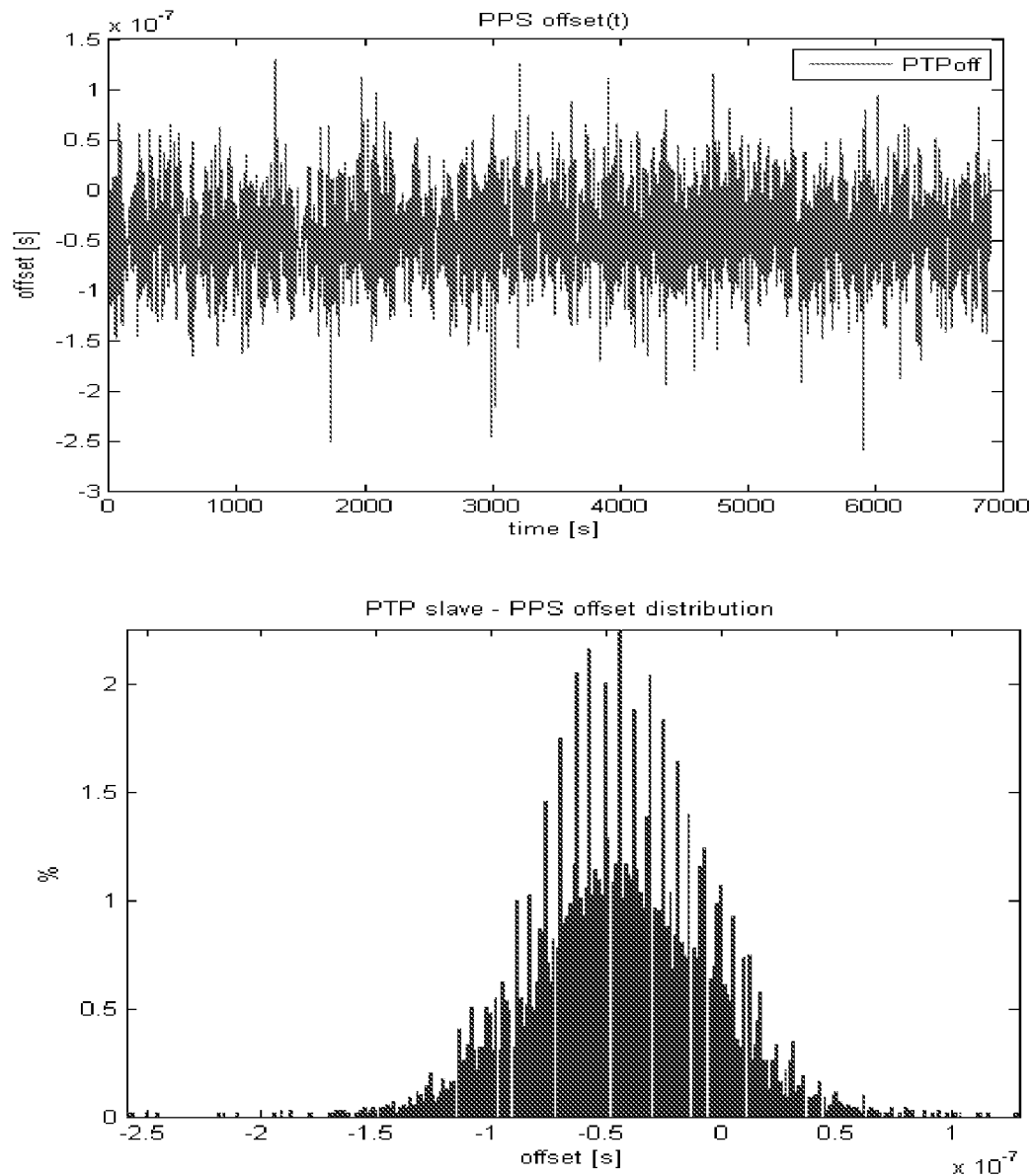


FIG. 22

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5. 50 sync msg/s, 2 switches between master and slave, 20Mbit/s UDP forced traffic
varOff=1.48247e-015
stdDev=38.5ns
minOff=-263ns
maxOff=107ns
meanOff=-42.5ns
deltaNS1=370ns
measureNum = 6939

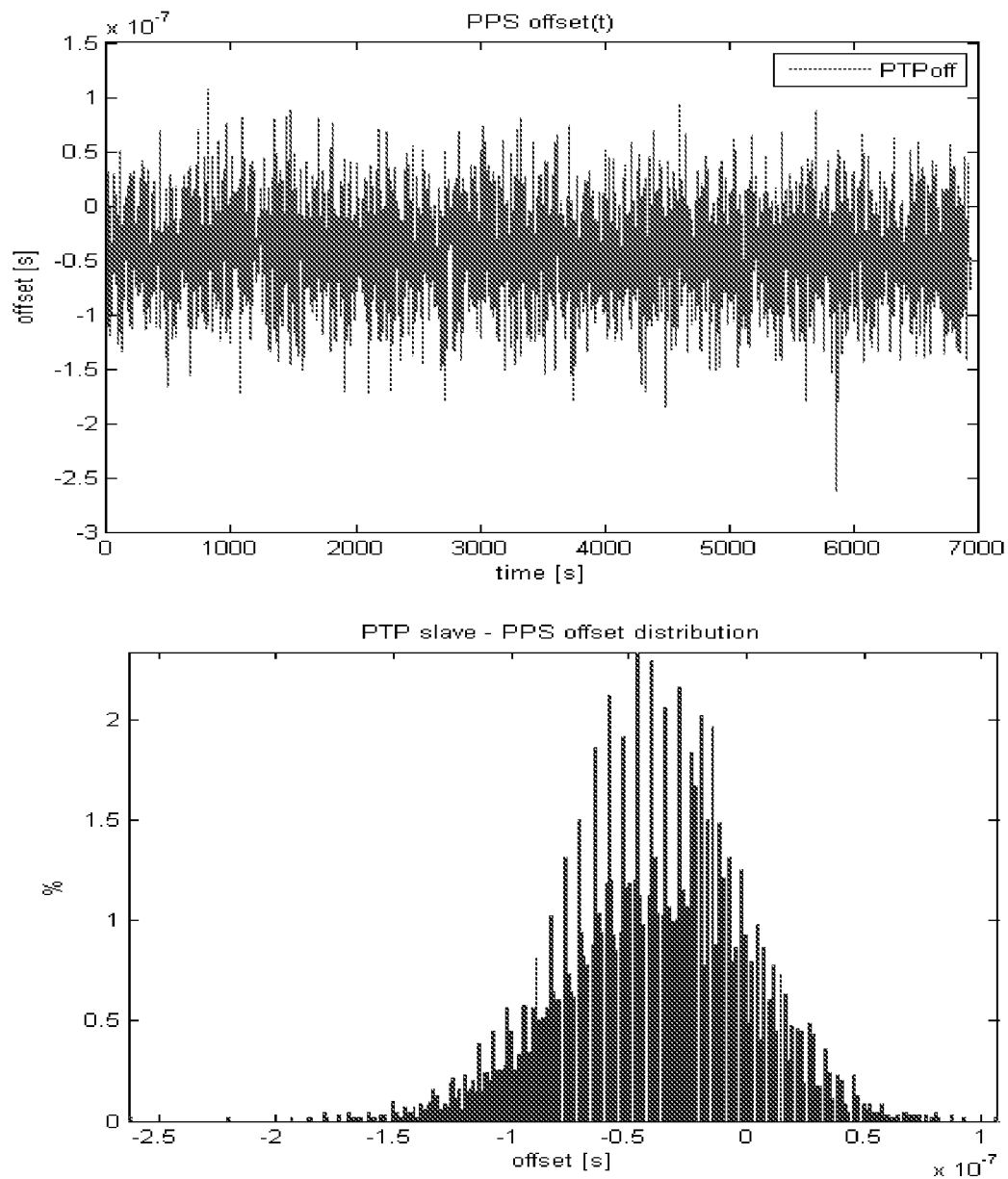


FIG. 23

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6. 50 sync msg/s, 2 switches between master and slave, 50Mbit/s UDP forced traffic

varOff=2.26e-014
stdDev=150ns
minOff=-1525ns
maxOff=2495ns
meanOff=-35.7ns
deltaNS1=4020ns
measureNum = 9395

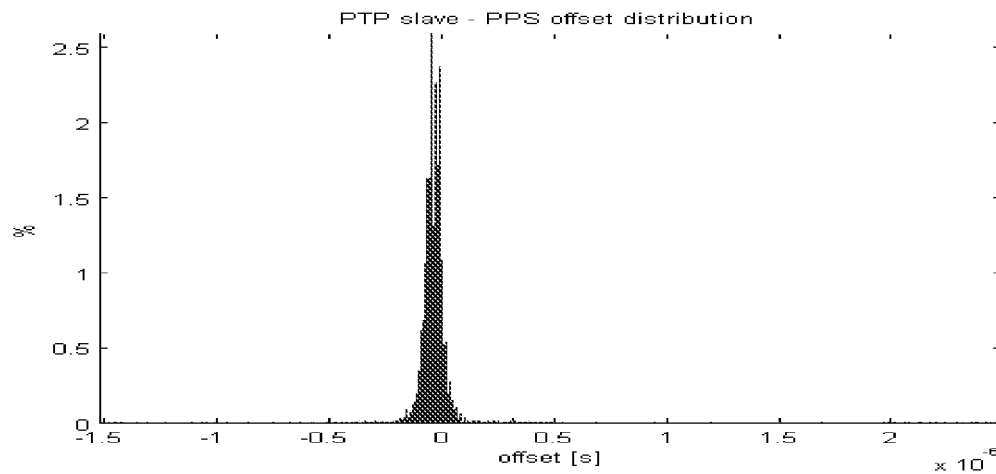
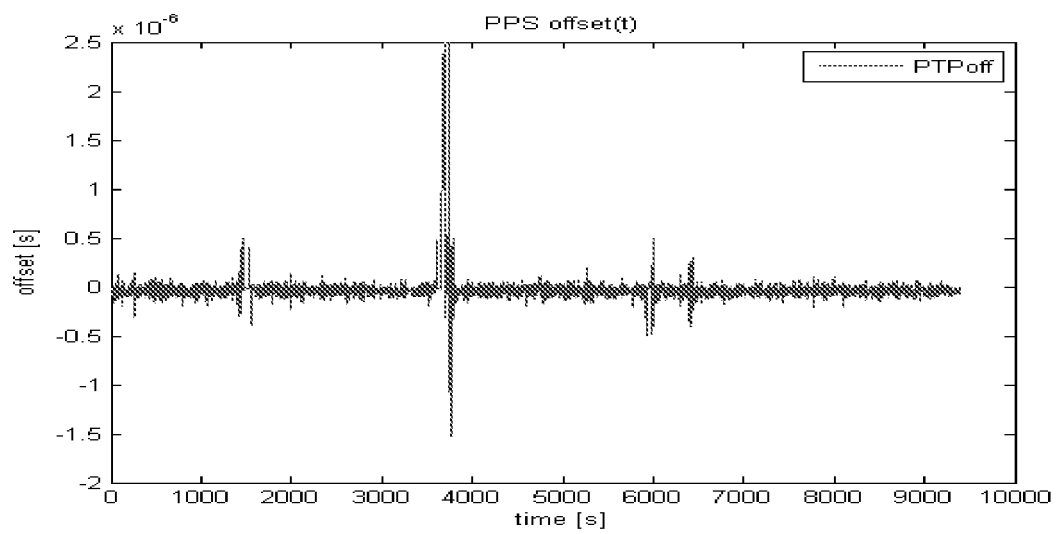


FIG. 24

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7. 50 sync msg/s, 2 switches between master and slave, 50Mbit/s UDP forced traffic (2nd)
varOff=1.55e-015
stdDev=39.3ns
minOff=-274ns
maxOff=229ns
meanOff=-43ns
deltaNS1=503ns
measureNum = 223236

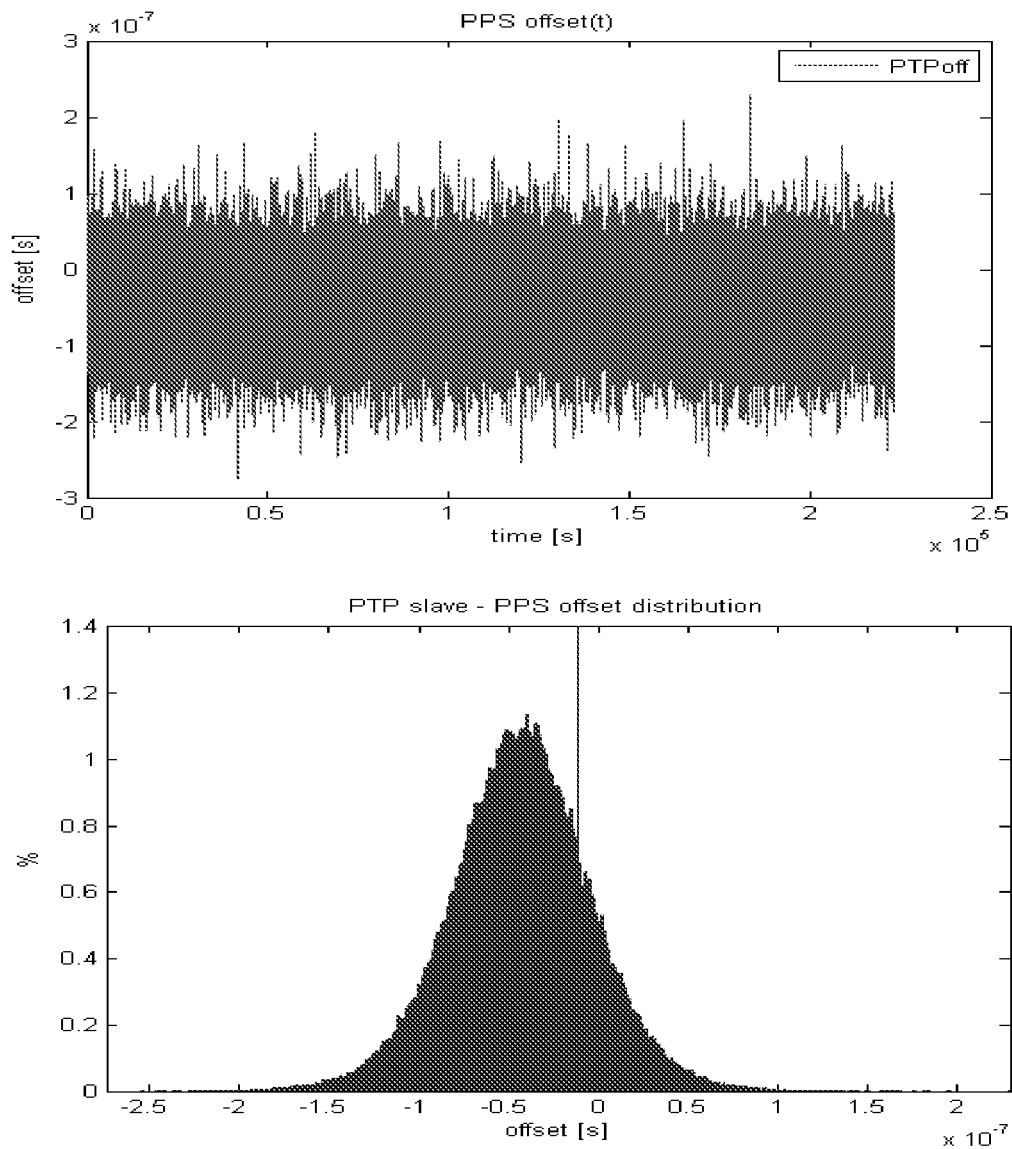


FIG. 25

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8. 50 sync msg/s, 2 switches between master and slave, 80Mbit/s UDP forced traffic

varOff=1.47456e-015
stdDev=3.84000e-008
minOff=-4.91000e-007
maxOff=4.90000e-007
meanOff=-4.27995e-008
deltaNS1=9.81000e+002
measureNum = 23670

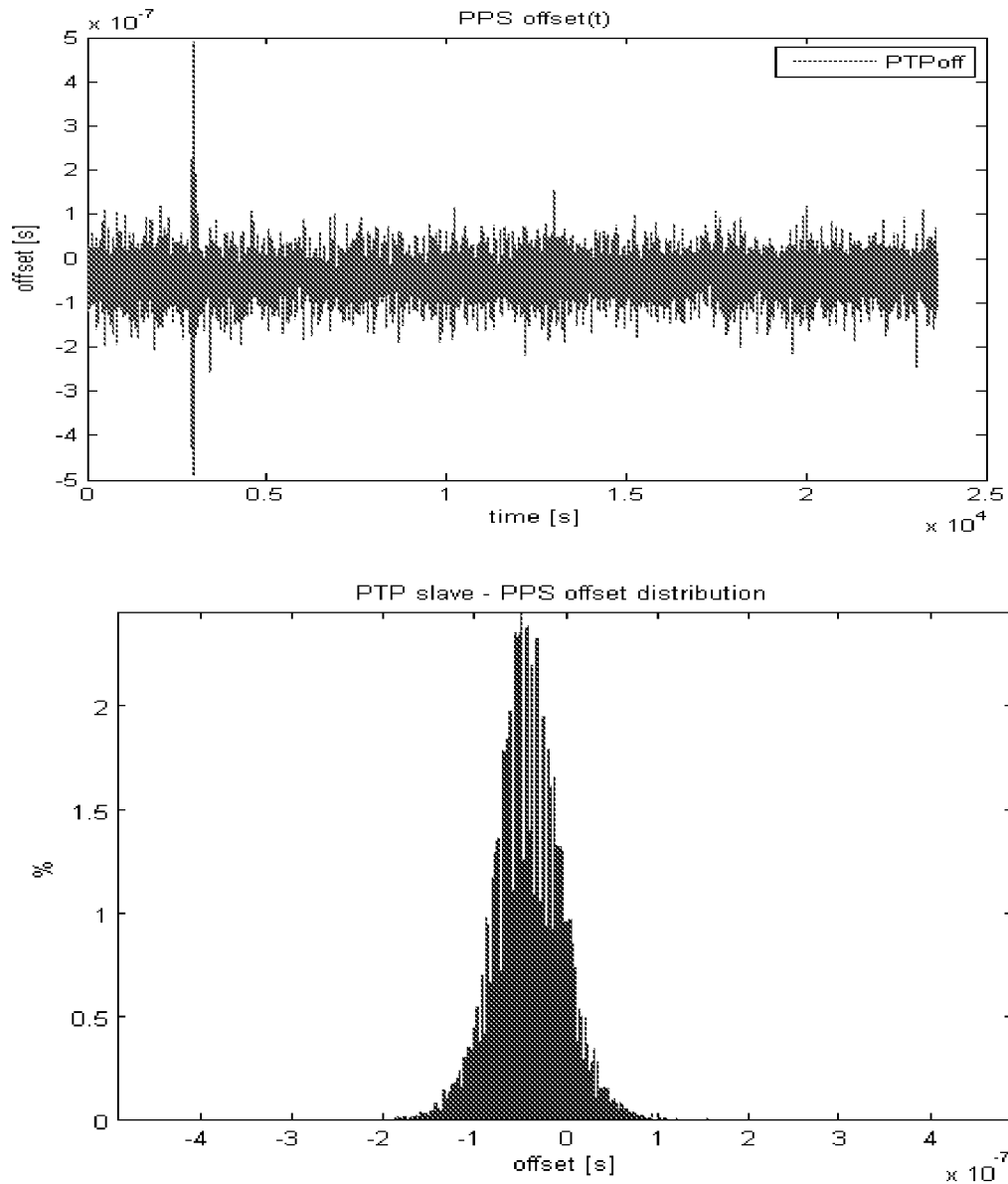


FIG. 26

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9. 50 sync msg/s, 2 switches between master and slave, 80Mbit/s UDP forced traffic (2nd)
varOff=1.56e-015
stdDev=39.5ns
minOff=-491ns
maxOff=490ns
meanOff = -43.1ns
deltaNS1 = 981ns
measureNum = 83030

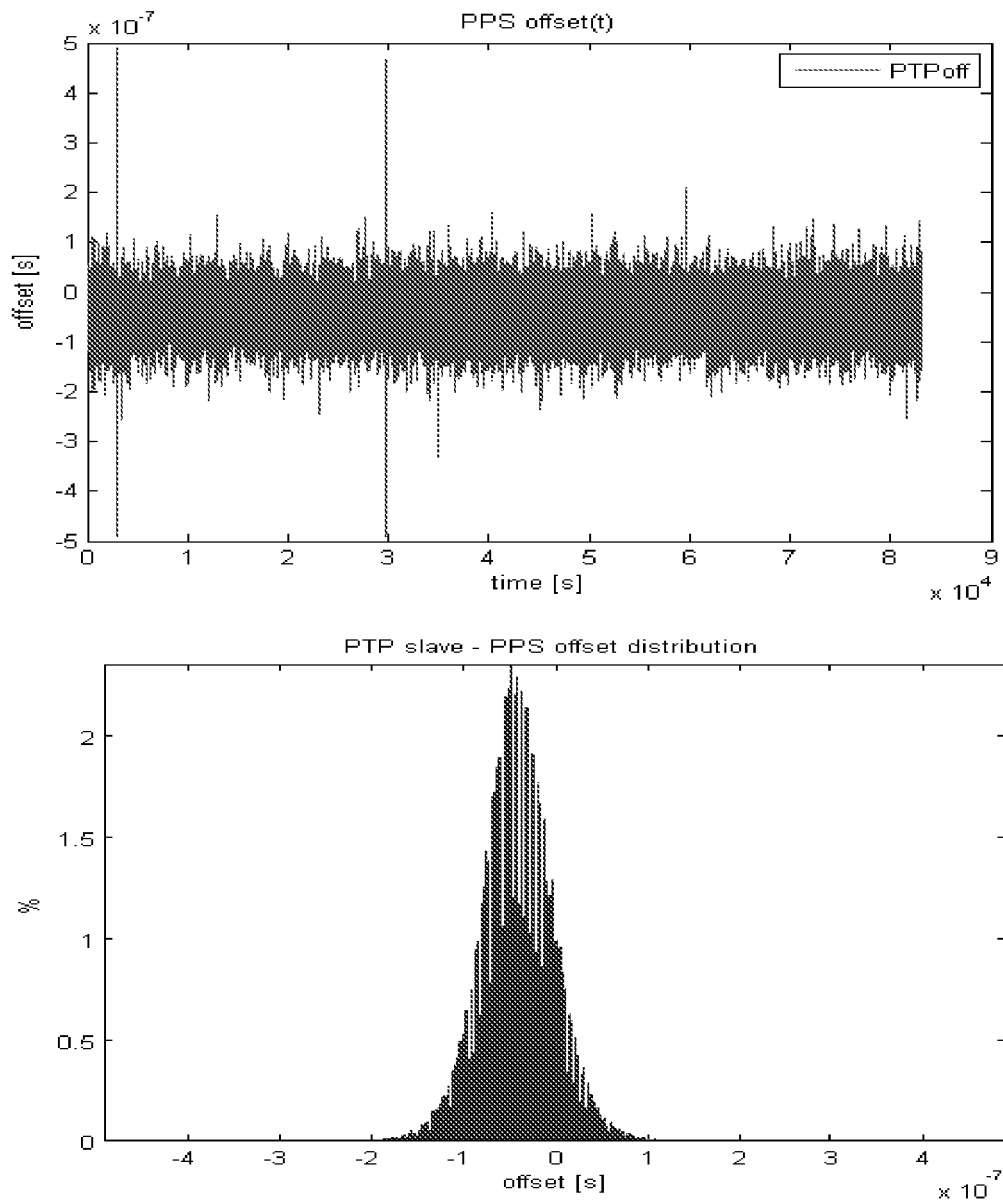


FIG. 27

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10. 50 sync msg/s, 3 switches between master and slave, 0Mbit/s UDP forced traffic
varOff=4.312e-015
stdDev=65.7ns
minOff=-112ns
maxOff=491ns
meanOff=179ns
deltaNS1=603ns
measureNum = 14461

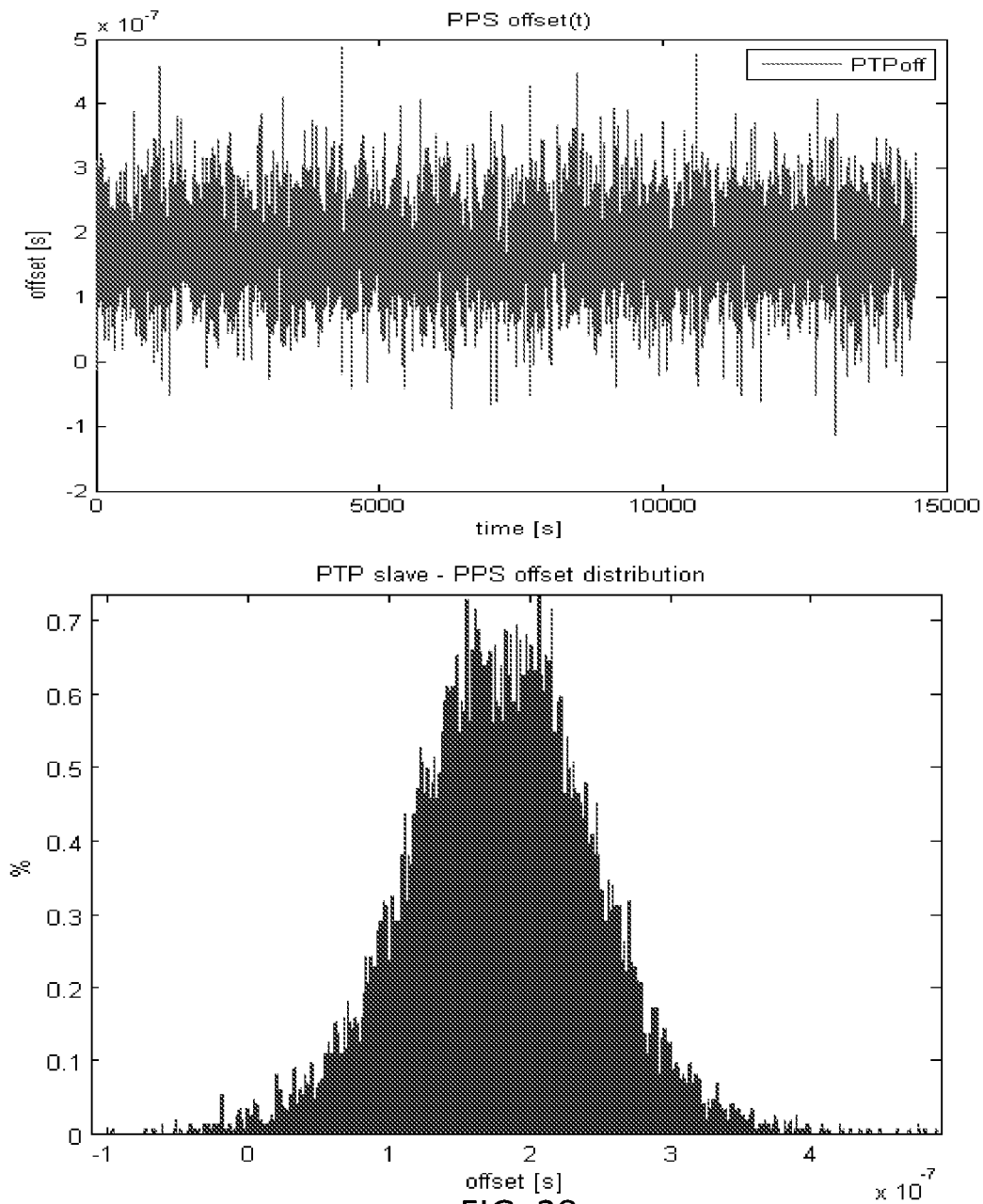


FIG. 28

11. 50 sync msg/s, 1 switch between master and slave, 20Mbit/s UDP forced traffic
varOff=3.97e-016
stdDev=19.9ns
minOff=-41ns
maxOff=314ns
meanOff=168ns
deltaNS1=355ns
measureNum = 85568

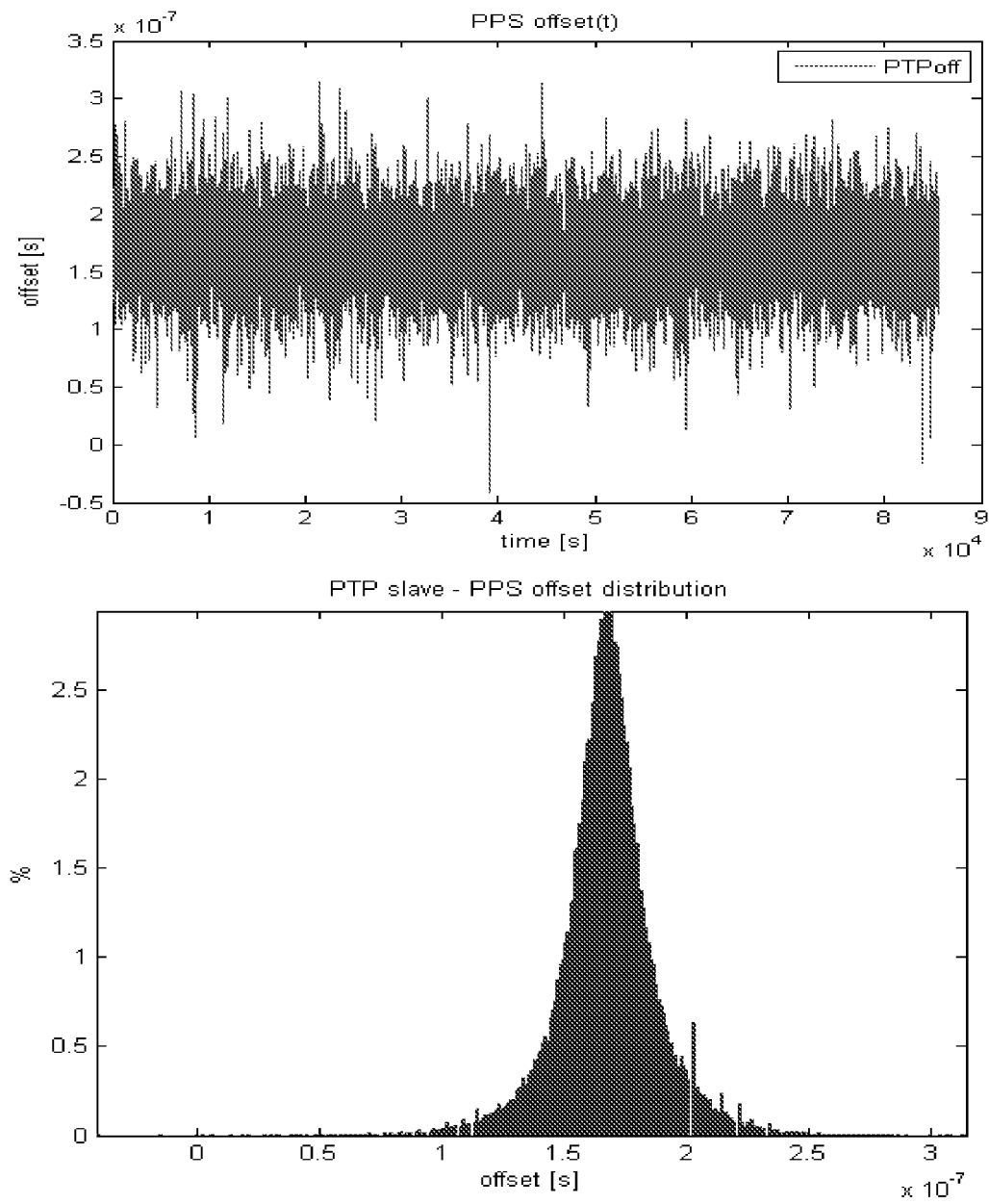


FIG. 29

12. 50 sync msg/s, 1 switch between master and slave, 50Mbit/s UDP forced traffic
varOff=4.19e-016
stdDev=20.5ns
minOff=-55ns
maxOff=360ns
meanOff=168ns
deltaNS1=415ns
measureNum = 86696

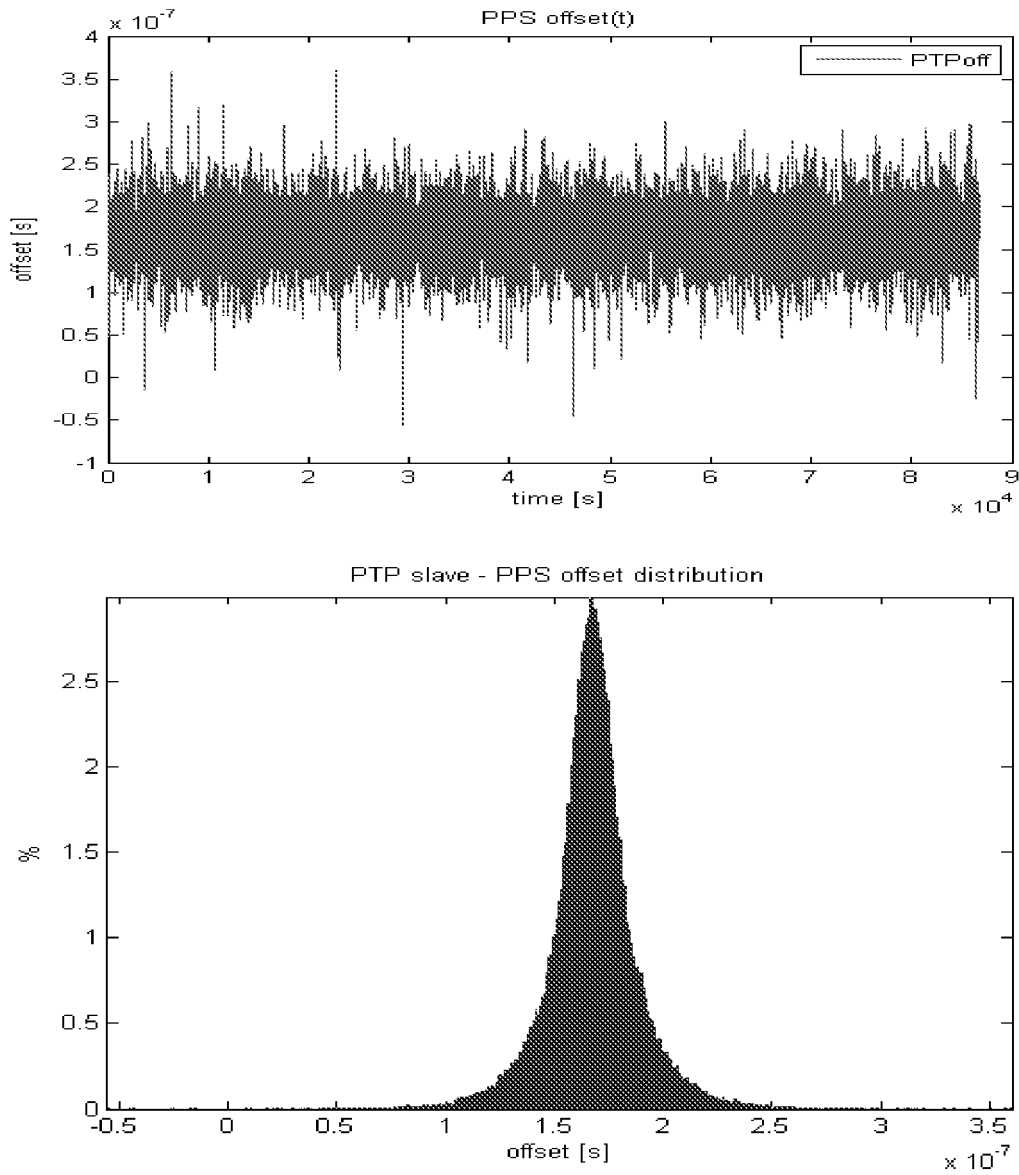


FIG. 30

13. 50 sync msg/s, 1 switch between master and slave, 80Mbit/s UDP forced traffic
varOff=4.16e-016
stdDev=20.4ns
minOff=-69ns
maxOff=332ns
meanOff=168ns
deltaNS1=401ns
measureNum = 82583

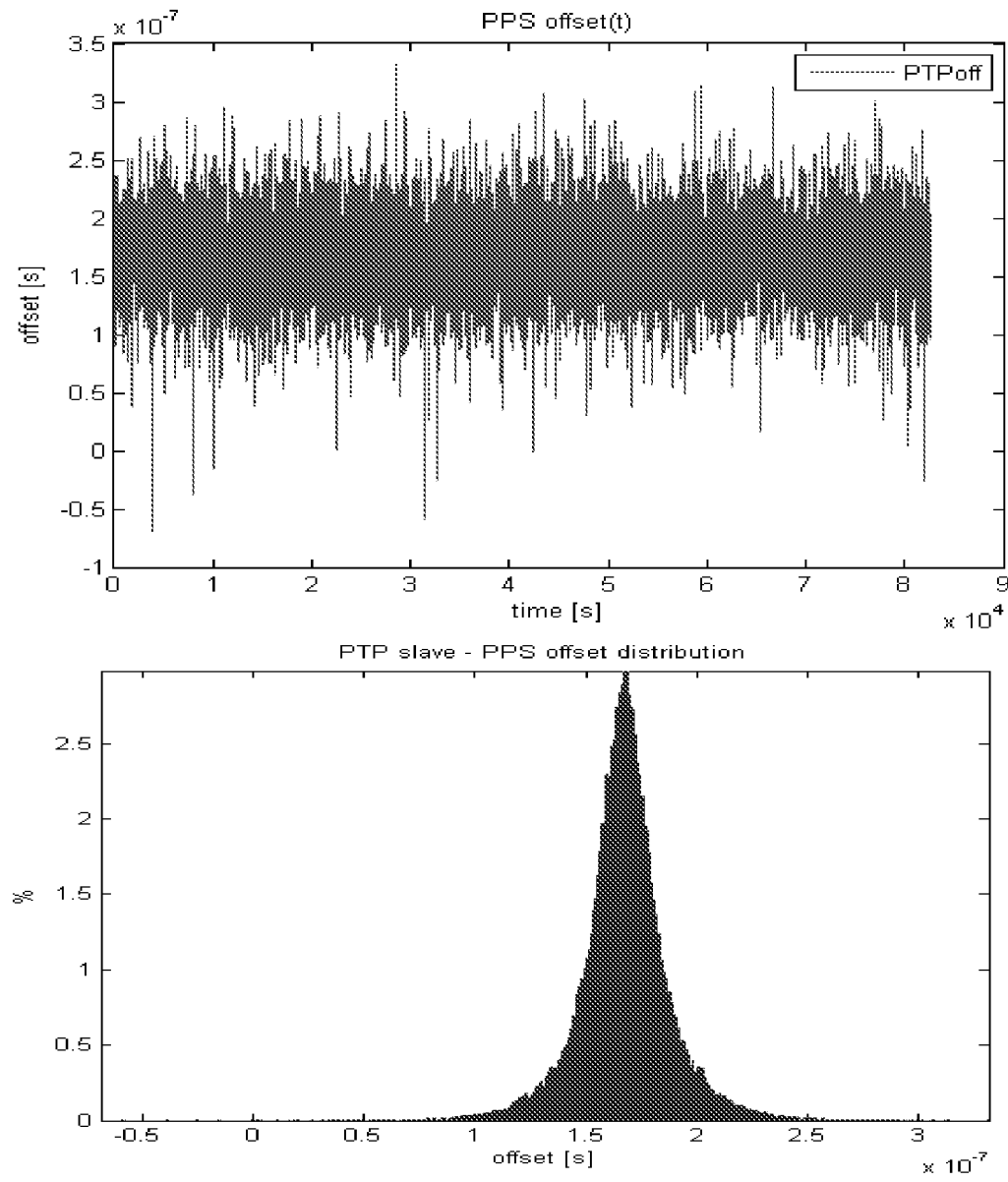


FIG. 31