

# Calculation of $\pi$ to 100,000 Decimals

By Daniel Shanks and John W. Wrench, Jr.

1. **Introduction.** The following comparison of the previous calculations of  $\pi$  performed on electronic computers shows the rapid increase in computational speeds which has taken place.

Author	Machine	Date	Precision	Time
Reitwiesner [1]	ENIAC	1949	2037D	70 hours
Nicholson & Jeanel [2]	NORC	1954	3089D	13 min.
Felton [3]	Pegasus	1958	10000D	33 hours
Genuys [4]	IBM 704	1958	10000D	100 min.
Unpublished [5]	IBM 704	1959	16167D	4.3 hours

All these computations, except Felton's, used Machin's formula:

$$(1) \quad \pi = 16 \tan^{-1} \frac{1}{5} - 4 \tan^{-1} \frac{1}{239}.$$

Other things being equal, that is, assuming the use of the same machine and the same program, an increase in precision by a factor  $f$  requires  $f$  times as much memory, and  $f^2$  times as much machine time. For example, a hypothetical computation of  $\pi$  to 100,000D using Genuys' program would require 167 hours on an IBM 704 system and more than 38,000 words of core memory. However, since the latter is not available, the program would require modification, and this would extend the running time. Further, since the probability of a machine error would be more than 100 times that during Genuys' computation, prudence would require still other program modifications, and, therefore, still more machine time.

2. **A New Program.** We discuss here a computation of  $\pi$  to more than 100,000D, which required 8 hours 43 minutes on an IBM 7090 system. This increase in speed by a factor of about 20 is largely due to the increased speed of the 7090 (it is about 7 times as fast as a 704), but substantial gains were also obtained by programming changes.

The formula we used, namely,

$$(2) \quad \pi = 24 \tan^{-1} \frac{1}{8} + 8 \tan^{-1} \frac{1}{57} + 4 \tan^{-1} \frac{1}{239},$$

is due to Störmer [6], and has not been previously used in high-precision computation. The computation time breaks down as follows:

$$8 \tan^{-1} \frac{1}{57}: 3 \text{ hours } 7 \text{ minutes}$$

$$4 \tan^{-1} \frac{1}{239}: 2 \text{ hours } 20 \text{ minutes}$$

$$24 \tan^{-1} \frac{1}{8}: 2 \text{ hours } 34 \text{ minutes}$$

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Conversion (binary-to-decimal): 42 minutes.

To obtain these favorable times, two devices were used.

a) Instead of evaluating the Taylor series

$$(3) \quad A \tan^{-1} \frac{1}{m} = \sum_{k=0}^{\infty} \frac{(-1)^k A m}{(2k+1)m^{2(k+1)}}$$

term by term, one may compute two terms at a time by using

$$(4) \quad A \tan^{-1} \frac{1}{m} = \sum_{k=0}^{\infty} \frac{Am[(4k+3)m^2 - (4k+1)]}{(16k^2 + 16k + 3)m^{4(k+1)}}.$$

This substitutes 2 (multi-precision) divisions, 1 multiplication, and 1 addition for 4 divisions, 1 subtraction, and 1 addition, and this eliminates 27% of the computation time. Further improvement in this direction, i.e., three terms at a time, is not possible here, since the divisors in (4),  $m^4$  and  $(16k^2 + 16k + 3)$ , already tend to fill a 7090 word, whose maximum numerical size is  $2^{35} - 1$ .

b) Since the 7090 is a binary machine, the (multi-precision) division by  $m^4$  and the multiplication by  $[(4k+3)m^2 - (4k+1)]$  may be replaced by a simple shifting operation for the case  $m = 8$  in  $24 \tan^{-1} \frac{1}{8}$ . Had this not been done the 2 hours 34 minutes listed above would be, instead, 6 hours 7 minutes with the double-term formula, (4), or 8 hours 21 minutes with (3).

The program using (4) requires three blocks of storage, one for the current  $Am/m^{4(k+1)}$ , one for the current term, and one for the partial sum. Since a 7090 word is equivalent to 10.536 decimal digits, the working storage for an  $N$ -place  $\pi$  is  $3N/10.536$ . Therefore, a core memory of 32,768 easily suffices for a computation to more than 100,000D.

**3. The Check.** Inasmuch as such a computation requires *billions* of (arithmetical) operations, it is clear that a check is necessary. This was obtained with Gauss's formula [7]:

$$(5) \quad \pi = 48 \tan^{-1} \frac{1}{18} + 32 \tan^{-1} \frac{1}{57} - 20 \tan^{-1} \frac{1}{238}.$$

During the computation, using (2), the numbers

$$A = 8 \tan^{-1} \frac{1}{57}$$

and

$$B = 8 \tan^{-1} \frac{1}{57} + 4 \tan^{-1} \frac{1}{238}$$

were written on tape. At the start of the check  $A$  and  $B$  were read into memory and  $9A - 5B = 32 \tan^{-1} \frac{1}{57} - 20 \tan^{-1} \frac{1}{238}$  was computed (in 1 second). To this difference was added the new number  $48 \tan^{-1} \frac{1}{18}$ , which was computed by (4) in 4 hours 22 minutes. The check, therefore, takes less time than the original run (8 hours 1 minute), and is perfectly valid, since an error in any of the four arc-tangents will lead to a discrepancy between the results of (2) and (5).

**4. The Result.** The run and the check were both made on July 29, 1961, and such a discrepancy did in fact occur. The two values of  $\pi$ , in binary form, were compared by the machine in  $\frac{1}{8}$  second, and were found to agree to only 234,848 bits. This is equivalent to 70,695 decimal places. Subsequently the error was isolated. It

was found to have occurred in the computation of  $24 \tan^{-1} \frac{1}{8}$ . The second value of  $\pi$ , computed using (5), was therefore correct throughout. When  $24 \tan^{-1} \frac{1}{8}$  was recomputed, the two values of  $\pi$  agreed up to the last word. This comprised 333,075 bits, or 100,265 decimal places. The first 100,000 of these are given here.

The computation was of such a character that it was known *a priori* that the term involving  $\tan^{-1} \frac{1}{2 \cdot \frac{1}{8}}$  contains most of the round-off and truncation error, and consequently that we have the inequalities:

$$\pi \text{ computed by (2)} < \pi < \pi \text{ computed by (5)}.$$

Thus the check and the computation give upper and lower bounds respectively, and, to the extent that they agree,  $\pi$  is determined absolutely.

Care has been taken in the output routines—in writing and printing—and, since the reproduction here is photographic, we believe that this value is entirely free from error.

**5. A Million Decimals?** Can  $\pi$  be computed to 1,000,000 decimals with the computers of today? From the remarks in the first section we see that the program which we have described would require times of the order of *months*. But since the memory of a 7090 is too small, by a factor of ten, a modified program, which writes and reads partial results, would take longer still. One would really want a computer 100 times as fast, 100 times as reliable, and with a memory 10 times as large. No such machine now exists.

There are, of course, many other formulas similar to (1), (2), and (5), and other programming devices are also possible, but it seems unlikely that any such modification can lead to more than a rather small improvement.

Are there *entirely different* procedures? This is, of course, possible. We cite the following: compute  $1/\pi$  and then take its reciprocal. This sounds fantastic, but, in fact, it can be faster than the use of equation (2). One can compute  $1/\pi$  by Ramanujan's formula [8]:

$$(6) \quad \frac{1}{\pi} = \frac{1}{4} \left( \frac{1123}{882} - \frac{22583}{882^2} \frac{1}{2} \cdot \frac{1 \cdot 3}{4^2} + \frac{44043}{882^5} \frac{1 \cdot 3}{2 \cdot 4} \cdot \frac{1 \cdot 3 \cdot 5 \cdot 7}{4^2 \cdot 8^2} - \dots \right).$$

The first factors here are given by  $(-1)^k (1123 + 21460k)$ . A binary value of  $1/\pi$  equivalent to 100,000D, can be computed on a 7090 using equation (6) in 6 hours instead of the 8 hours required for the application of equation (2).<sup>\*</sup> To reciprocate this value of  $1/\pi$  would take about 1 hour. Thus, we can reduce the time required by (2) by an hour. But unfortunately we lose our overlapping check, and, in any case, this small gain is quite inadequate for the present question.

One could hope for a theoretical approach to this question of optimization—a theory of the “*depth*” of numbers—but no such theory now exists. One can guess that  $e$  is not as “*deep*” as  $\pi$ ,<sup>†</sup> but try to prove it!

Such a theory would, of course, take years to develop. In the meantime—say, in 5 to 7 years—such a computer as we suggested above (100 times as fast, 100 times as reliable, and with 10 times the memory) will, no doubt, become a reality. At that time a computation of  $\pi$  to 1,000,000D will not be difficult.

<sup>\*</sup> We have computed  $1/\pi$  by (6) to over 5000D in less than a minute.

<sup>†</sup> We have computed  $e$  on a 7090 to 100,265D by the obvious program. This takes 2.5 hours instead of the 8-hour run for  $\pi$  by (2).

**6. Acknowledgement.** We wish to thank the IBM Corporation for its generosity in allowing us to use, free of charge, the 7090 in the IBM Data Processing Center, New York, for the computation described above.

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1. G. REITWIESNER, "An ENIAC determination of  $\pi$  and  $e$  to more than 2000 decimal places," *MTAC*, v. 4, 1950, p. 11-15.

2. S. C. NICHOLSON & J. JEENEL, "Some comments on a NORC computation of  $\pi$ ," *MTAC*, v. 9, 1955, p. 162-164.

3. G. E. FELTON, "Electronic computers and mathematicians," *Abbreviated Proceedings of the Oxford Mathematical Conference for Schoolteachers and Industrialists at Trinity College, Oxford, April 8-18, 1957*, p. 12-17, footnote p. 12-53. This published result is correct to only 7480D, as was established by Felton in a second calculation, using formula (5), completed in 1958 but apparently unpublished. For a detailed account of calculations of  $\pi$  see J. W. WRENCH, JR., "The evolution of extended decimal approximations to  $\pi$ ," *The Mathematics Teacher*, v. 53, 1960, p. 644-650.

4. F. GENUYS, "Dix milles décimales de  $\pi$ ," *Chiffres*, v. 1, 1958, p. 17-22.

5. This unpublished value of  $\pi$  to 16167D was computed on an IBM 704 system at the Commissariat à l'Energie Atomique in Paris, by means of the program of Genuys.

6. C. STÖRMER, "Sur l'application de la théorie des nombres entiers complexes à la solution en nombres rationnels,  $x_1, x_2, \dots, x_n, c_1, c_2, \dots, c_n, k$  de l'équation  $c_1 \operatorname{arctg} x_1 + c_2 \operatorname{arctg} x_2 + \dots + c_n \operatorname{arctg} x_n = k\pi/4$ ," *Archiv for Mathematik og Naturvidenskab*, v. 19, 1896, p. 69.

7. C. F. GAUSS, *Werke*, Göttingen, 1863; 2nd ed., 1876, v. 2, p. 499-502.

8. S. RAMANUJAN, "Modular equations and approximations to  $\pi$ ," *Quart. J. Pure Appl. Math.*, v. 45, 1914, p. 350-372; *Collected papers of Srinivasa Ramanujan*, Cambridge, 1927, p. 23-39.

*Note added in proof, December 1, 1961.* J. M. GERARD of IBM United Kingdom Limited, who was then unaware of the computation described above, computed  $\pi$  to 20,000 D on the 7090 in the London Data Centre on July 31, 1961. His program used Machin's formula, (1), and required 39 minutes running time. His result agrees with ours to that number of decimals.

PI = 3 →

1415926535 8979323846 2643383279 5028841971 6939937510 5829074944 5923078164 62628620899 8628034825 3421170679  
 8214808651 3282306647 0938446095 5058223172 5359408128 4811117450 8410270193 8521105559 64462294869 5493038196  
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 7245870066 0631558817 4881520920 962892540 91171536436 7892590360 1113305305 18852046652 1384146951 94151116094  
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 4201995611 2129021960 840344181 5981362977 4771309960 5187021113 4999999837 29780409951 0597317328 1609631859  
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 59825534904 2875546873 1159562863 8823537875 9375195778 1857780532 1712268066 1300192787 6611195909 2164201989  
 3809525720 1065485863 2788659361 5338182796 8230310592 3535018529 6899577362 2599413927 18509427752 8347913151  
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 2332609729 9712084433 5732654893 8239119325 9746366730 5836044428 1388030203 8249037589 8524374417 0291327656  
 1809377344 4030707469 2112019130 2033038019 7621101100 4492932151 6084244485 9637669838 9522868478 3123552859  
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 6222427715 8915049530 9844489333 0963408780 7693259939 78054119341 4473774418 42631219860 8099888687 41326094721





FROM 150010 TO 200000

Table listing decimal digits from position 150010 to 200000, organized in columns of 100 digits each. The table contains 20 columns of numerical data, each representing a segment of the decimal expansion of  $\pi$ .



FROM 20001D TO 25000D

2038565390 9210477594 1413215432 8440625030 1802757169 6508209642 7348414695 7263978842 5600845312 14065935580  
9041271135 9200419759 8513629479 6160632288 7361813673 7324050607 9244117639 9759746193 8358457491 5988097667  
4470930065 4634242346 0634237474 6660804317 0126005205 5928493695 9414340814 6852981505 3947178900 4518357551  
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090070893 3072308966 2119775530 6659188141 1915778362 7292746156 8951073721 7247100952 1423696483 0862402592  
8874579923 2237495519 1221951903 4244523075 3513380685 6807354464 9951272031 7448719540 3976107300 0602699062  
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6381109845 1484182380 8120540996 1252745808 8109948697 2216128524 8974255555 1607637167 5054896173 0168099138  
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0569960513	1838131742	6118442018
6815855778	1034323175	3084784983
5052960229	0705614476	2209150947
5273842236	2442980982	3406320024
7722623494	8601504665	2681439877
768758028	7354126166	3917082459
2853215159	0354102092	8466592529
5213322614	4362531449	0127454772
8520766573	8825139639	1635767231
9197120948	9647175530	2453136477
806601078	8544000050	8276570305
8338787034	8718021842	4373421122
0661253311	5294234579	6556950250
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3380183601	1932368578	5585581955
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9974831638	2804046848	6189381895
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2135866007	9600342097	5473922967
9409665304	1183066710	8189303110
5811350185	6904781536	8938137718
3795826061	6211842368	7685114183
5912339601	8801378254	2192709476
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9478495734	6226062942	1962455708
6378918523	2321501897	6126034373
3911449677	5312864260	9252115376
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5568274377	4396578906	7972687438
8921210667	0081648583	3955377359
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5315371829	1168163721	9395188700
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0613031336	4773710116	2821461466
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2487391999	4486411334	8032467577
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6316129372	7951873078	9726373537
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FROM 35001D TO 40000D

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9783650195	5142215513	3928197822
9965474815	6891393538	0943474556
1721108439	8901423948	4966592517
4312559990	0957627319	5730864804
0879098600	0218278578	6216512738
7169226580	6315111028	0384360173
1505095633	0928026684	5893764964
1288134034	9881063540	0887596820
1118431989	1025007491	8290864471
2638411847	4252570845	7251745932
3383565748	6925280074	3025623419
1914489984	1040015867	9461792416
5169747581	3449260794	3368954378
6933921356	8588139121	4807354728
3958160679	2509153217	4890308408
3361766285	0621697787	1774382436
8450027106	6598781360	3802314126
0105292707	0306673024	4471259739
0276017339	4748669603	4869497634
1564161971	6843352836	9794447355
8078288142	9796336636	7441248059
0190237753	5255563006	0624798326
3290825250	9273304785	0724977139
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8800064943	2378558393	0853082830
6447127037	4863442172	7257879503
3719925365	407909582	5193568634
6139863655	4922137415	9790511908
4453041131	6065270097	4330088499
4738222208	7292464497	6845605795
9123973215	9954408284	2166663602
0977083636	4036111059	2409117889
1587562827	5733898268	8985235577
8885879259	9409464460	4170520447
9655805872	0863972117	6995219466
5404771057	0054339000	1824531177
0223851791	6720551806	5926351803
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6240104872	3328750081	7491798755
7597713935	3960743227	9248922126
6300785920	0248829186	0839743732
6638002087	0126664209	4571817029
5235911774	8186285929	6760504820
4301660586	0296521745	9581988878
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3656242260	8715417610	04303608904
7760133075	6847966992	9554336561
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4188883426	6222270783	8722801077
0801317988	4071624465	6399794827
0700454884	8569295044	8110738083
3361412125	8783895577	3571949863
4414939169	3632623737	6777709585
1303063973	8735664248	3672539837
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6724521989	6065498802	6065498802
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8825681377	7172328315	7172328315
1179857293	813998583	813998583
7742801455	7404181590	7404181590
2431956506	5546085288	1201902363
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FROM 450010 TO 500000

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FROM 60001D TO 65000D

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FROM 65001D TO 70000D

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FROM 70001D TO 75000D

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2945844728	9445471662	0929749549
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0696508959	6310121218	4918058479
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3814232382	8184750105	1641331189
3614553117	5354210726	5578356154
9316724536	5472083816	8585366064
0385251714	8852526567	1045349813
8510184010	3844472348	9488695209
2780125341	0338946698	1864243003
9926271209	5168477956	8482583341
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1312689772	6671299202	5922017408
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7665260439	7665260439	5216664235
5944691945	5944691945	23586031530
876089410	876089410	7479846710
1748336432	1748336432	6840262829
7972660276	7972660276	5840166789
7678573892	7678573892	0186243599
9711235204	9711235204	3319947082
1115170938	1115170938	7226002645
7937014142	7937014142	4615493075
8835408635	8835408635	3915130392
0131680576	0131680576	9034172596
7665260439	7665260439	5216664235
5944691945	5944691945	23586031530



