

## RESULTS OF THE 1. MORPHOLYMPICS

held March 7 and 8 1994  
 Universität Erlangen – Nürnberg  
 coordinator: Roland Hausser

The draw of the ballot resulted in the following order of presentations:

- |   |          |   |
|---|----------|---|
| 1 | MORPHY   | Wolfgang Lezius, Universität Paderborn                      |
| 2 | PC-KIMMO | Anne Schiller, Universität Stuttgart                        |
| 3 | MORPH    | Gerhard Hanrieder, FORWISS, Erlangen                        |
| 4 | MORPHIX  | Wolfgang Finkler, Ottmar Lutzy, Universität des Saarlandes  |
| 5 | PLAIN    | Henriette Visser, Heinz-Detlev Koch, Universität Heidelberg |
| 6 | LA-MORPH | Gerald Schüller, Oliver Lorenz, Universität Erlangen        |
| 7 | GERTWOL  | Kimmo Koskeniemi, Mariikka Haapalainen, Lingsoft, Helsinki  |
| 8 | MPRO     | Heinz-Dieter Maas, IAI, Saarbrücken                         |

The judges were:

- |                  |                            |
|------------------|----------------------------|
| Istvan Bátori    | Universität Koblenz-Landau |
| Gregor Dogil     | Universität Stuttgart      |
| Günther Görz     | Universität Erlangen       |
| Winfried Lenders | Universität Bonn           |
| Uta Seewald      | Universität Hannover       |

First prize: GERTWOL  
 Second prize: MORPH  
 Third prize: LA-MORPH

Below the results are given in more detail.

### 1 Number of wordforms per second

As stated in the announcement, the test data were to be analyzed on a workstation, a PC and an Apple Macintosh. However, only two systems ran their programs on all three platforms. Five systems ran only on the workstation and one system ran only on the PC under DOS.

HP9000/735, HP-UX 9.01								
	MORPHIX	LAMORPH	GERTWOL	MORPH	MPRO	PC-K	MORPHY	PLAIN
Text1	4210	3413	722	152	12	11	-	3
Text2	5263	4900	983	204	18	11	-	3
List1	1820	1668	282	106	5	9	-	2
List2	1175	969	473	148	5	7	-	1

Intel 486/33, Linux 99.15 (other systems did not port to this platform)		
	LAMORPH	MORPHIX
Text1	357	169
Text2	507	203
List1	167	87
List2	129	67

Intel 486/33, MS-DOS 6.2 (other systems did not port to this platform)		
	LAMORPH	MORPHY
Text1	27	7
Text2	37	6
List1	35	6
List2	45	5

MAC IIci, System 7.0 (other systems did not port to this platform)		
	MORPHIX	LAMORPH
Text1	78	14
Text2	93	18
List1	38	17
List2	36	25

## 2 Percentage of word forms recognized

Text1 (roughly 2100 word forms)							
MORPH	LA-MORPH	PC-K	PLAIN	GERTWOL	MPRO	MORPHY	MORPHIX
95.5%	93.6%	93.5%	92.9%	92.6%	91.1%	89.2%	86.0%
Text2 (roughly 1620 word forms)							
MORPH	LA-MORPH	MORPHY	PC-K	GERTWOL	MORPHIX	MPRO	PLAIN
98.6%	96.2%	95.9%	94.6%	93.2%	92.1%	90.1%	89.6%
List1 (3817 word forms from LIMAS-corpus)							
GERTWOL	MPRO	LA-MORPH	PC-K	MORPH	PLAIN	MORPHY	MORPHIX
99.9%	96.8%	95.3%	95.0%	93.8%	93.6%	86.9%	74.3%
List2 (282 words of which about 5% are not wellformed)							
PC-K	MORPH	PLAIN	GERTWOL	MPRO	LA-MORPH	MORPHY	MORPHIX
96.8%	89.7%	88.0%	86.9%	84.6%	83.3%	75.8%	73.4%

## 3 Summary of the results

Speed					
	First place		Second place		Third place
HP-UX	4	MORPHIX	6	LAMORPH	7 GERTWOL
Linux	6	LAMORPH	4	MORPHIX	
MS-DOS	6	LAMORPH	1	MORPHY	
MAC S7	4	MORPHIX	6	LAMORPH	
Coverage					
	First place		Second place		Third place
Text1	3	MORPH	6	LAMORPH	2 PC-K
Text2	3	MORPH	6	LAMORPH	1 MORPHY
List1	7	GERTWOL	8	MPRO	6 LAMORPH
List2	2	PC-K	3	MORPH	5 PLAIN