SUMMARY YEAR 1
PROPOSAL BUDGET FOR NSF USE ONLY

| ORGANIZATION | | | | R NSF USE ONLY | | | | | |
|--|----------------------------|----------------------|--|----------------|--|---------------------------------|--|--|--|
| ON CANALA HON | GANIZATION PROPUSAL BUDGET | | | | | ON (months | | | |
| Wesleyan University | | | | | Proposed | Granted | | | |
| PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR | | ΑV | /ARD N | Ο. | | | | | |
| James B Lipton | | | | | | | | | |
| A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates | N P | SF Funde erson-mo | d S. | Dam | Funds | Funds | | | |
| (List each separately with title, A.7. show number in brackets) | CAL | ACAD | SUMR | pr | uested By roposer | granted by No (if different) | | | |
| 1. James B Lipton - PI | 0.00 | 0.00 | 2.00 | \$ | 14,000 | \$ | | | |
| 2. Daniel J Dougherty - co-PI | 0.00 | 0.00 | 2.00 | | 16,038 | | | | |
| 3. | | | | | | | | | |
| 4. | | | | | | | | | |
| 5. | | | | | | | | | |
| 6. (0) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE) | 0.00 | 0.00 | 0.00 | | 0 | | | | |
| 7. (2) TOTAL SENIOR PERSONNEL (1 - 6) | 0.00 | 0.00 | 4.00 | | 30,038 | | | | |
| B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS) | | | | | | | | | |
| 1. (0) POST DOCTORAL ASSOCIATES | | 0.00 | | | 0 | | | | |
| 2. (0) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.) | 0.00 | 0.00 | 0.00 | | 0 | | | | |
| 3. (0) GRADUATE STUDENTS | | | | | 0 | | | | |
| 4. (0) UNDERGRADUATE STUDENTS | | | | | 0 | | | | |
| 5. (0) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY) | | | | | 0 | | | | |
| 6. (0) OTHER | | | | | 0 | | | | |
| TOTAL SALARIES AND WAGES (A + B) | | | | - | 30,038 | | | | |
| C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS) | | | | | 2,313 | | | | |
| TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C) | | | | | 32,351 | | | | |
| D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING) | | , | | | | | | | |
| 2 workstations | \$ | • | 3,500 | | | | | | |
| | | | TOTAL EQUIPMENT E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) | | | | | | |
| 2. FOREIGN | , | | | | | | | | |
| | | | | | 4,500 | | | | |
| | | | | | 4,500 | | | | |
| F. DADTIGIDANT GUIDDORT COOTO | | | | | 4,500 | | | | |
| F. PARTICIPANT SUPPORT COSTS | | | | | 4,500 | | | | |
| 1. STIPENDS \$ | | | | | 4,500 | | | | |
| 1. STIPENDS \$0 2. TRAVEL0 | | | | | 4,500 | | | | |
| 1. STIPENDS \$ 0 2. TRAVEL 10,000 3. SUBSISTENCE 0 | | | | | 4,500 | | | | |
| 1. STIPENDS \$ 0 2. TRAVEL 10,000 3. SUBSISTENCE 0 4. OTHER 0 | | | | | | | | | |
| 1. STIPENDS \$ 0 2. TRAVEL 10,000 3. SUBSISTENCE 0 4. OTHER 0 (11) TOTAL PARTICIPANT COSTS | | | | | 10,000 | | | | |
| 1. STIPENDS \$ 0 2. TRAVEL 10,000 3. SUBSISTENCE 0 4. OTHER 0 (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS | | | | | 10,000 | | | | |
| 1. STIPENDS \$ 0 2. TRAVEL 10,000 3. SUBSISTENCE 0 4. OTHER 0 (11) TOTAL PARTICIPANT COSTS | | | | - | | | | | |
| 1. STIPENDS \$ 0 2. TRAVEL 10,000 3. SUBSISTENCE 0 4. OTHER 0 (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES | | | | | 10,000 | | | | |
| 1. STIPENDS \$ 0 2. TRAVEL 10,000 3. SUBSISTENCE 0 4. OTHER 0 (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION | | | | | 10,000 1,274 0 | | | | |
| 1. STIPENDS \$ 0 2. TRAVEL 10,000 3. SUBSISTENCE 4. OTHER 0 (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES | | | | | 10,000 1,274 0 | | | | |
| 1. STIPENDS \$ 0 2. TRAVEL 10,000 3. SUBSISTENCE 0 4. OTHER 0 (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES | | | | | 10,000 1,274 0 0 | | | | |
| 1. STIPENDS \$ 0 2. TRAVEL 10,000 3. SUBSISTENCE 0 4. OTHER 0 (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS | | | | | 10,000 1,274 0 0 0 392,032 | | | | |
| 1. STIPENDS \$ | | | | 3 | 10,000 1,274 0 0 0 392,032 0 | | | | |
| 1. STIPENDS \$ 10,000 2. TRAVEL 0 3. SUBSISTENCE 0 4. OTHER 0 (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) | | | | 3 | 10,000 1,274 0 0 392,032 0 393,306 | | | | |
| 1. STIPENDS \$ 10,000 2. TRAVEL 0 3. SUBSISTENCE 0 4. OTHER 0 (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS (A THROUGH G) | | | | 3 | 10,000 1,274 0 0 392,032 0 393,306 450,657 | | | | |
| 1. STIPENDS \$ 10,000 2. TRAVEL 0 3. SUBSISTENCE 0 4. OTHER 0 (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) 1. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) Salary (Rate: 78.00, Base: 30038) | | | | 3 | 10,000 1,274 0 0 392,032 0 393,306 450,657 | | | | |
| 1. STIPENDS \$ 10,000 2. TRAVEL 0 3. SUBSISTENCE 0 4. OTHER 0 (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) | | | | 3 | 10,000 1,274 0 0 392,032 0 393,306 450,657 | | | | |
| 1. STIPENDS \$ 10,000 2. TRAVEL 0 3. SUBSISTENCE 0 4. OTHER 0 (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) 1. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) Salary (Rate: 78.00, Base: 30038) TOTAL INDIRECT COSTS (F&A) J. TOTAL DIRECT AND INDIRECT COSTS (H + I) K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS | SEE GPC | G II.D.7.j | .) | 4 | 10,000 1,274 0 0 392,032 0 393,306 450,657 23,429 474,086 0 | | | | |
| 1. STIPENDS \$ 10,000 2. TRAVEL 0 3. SUBSISTENCE 0 4. OTHER 0 (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) Salary (Rate: 78.00, Base: 30038) TOTAL INDIRECT COSTS (F&A) J. TOTAL DIRECT AND INDIRECT COSTS (H + I) K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K) | | | | 4 | 10,000 1,274 0 0 392,032 0 393,306 150,657 23,429 174,086 | \$ | | | |
| 1. STIPENDS \$ 10,000 2. TRAVEL 0 3. SUBSISTENCE 0 4. OTHER 0 (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) Salary (Rate: 78.00, Base: 30038) TOTAL INDIRECT COSTS (F&A) J. TOTAL DIRECT AND INDIRECT COSTS (H + I) K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K) M. COST SHARING PROPOSED LEVEL \$ 0 AGREED LEV | | | IT\$ | 3 4 | 10,000 1,274 0 0 392,032 0 393,306 450,657 23,429 474,086 0 474,086 | \$ | | | |
| 1. STIPENDS \$ 10,000 2. TRAVEL 0 3. SUBSISTENCE 0 4. OTHER 0 (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) Salary (Rate: 78.00, Base: 30038) TOTAL INDIRECT COSTS (F&A) J. TOTAL DIRECT AND INDIRECT COSTS (H + I) K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K) M. COST SHARING PROPOSED LEVEL \$ 0 AGREED LEVEL PI / PD TYPED NAME & SIGNATURE* DATE | EL IF DIF | FEREN | T \$ | \$ 4 NSF US | 10,000 1,274 0 0 392,032 0 393,306 450,657 23,429 474,086 0 474,086 | | | | |
| 1. STIPENDS \$ 2. TRAVEL 3. SUBSISTENCE 4. OTHER 6. OTHER 6. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) Salary (Rate: 78.00, Base: 30038) TOTAL INDIRECT AND INDIRECT COSTS (H + I) K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K) M. COST SHARING PROPOSED LEVEL \$ 0 AGREED LEV PI / PD TYPED NAME & SIGNATURE* James B Lipton | EL IF DIF | FEREN | T \$ FOR I | \$ 4 ST RAT | 10,000 1,274 0 0 392,032 0 393,306 450,657 23,429 474,086 0 474,086 | CATION | | | |
| 1. STIPENDS \$ 10,000 2. TRAVEL 0 3. SUBSISTENCE 0 4. OTHER 0 (11) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 3. CONSULTANT SERVICES 4. COMPUTER SERVICES 5. SUBAWARDS 6. OTHER TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) Salary (Rate: 78.00, Base: 30038) TOTAL INDIRECT COSTS (F&A) J. TOTAL DIRECT AND INDIRECT COSTS (H + I) K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K) M. COST SHARING PROPOSED LEVEL \$ 0 AGREED LEVEL PI / PD TYPED NAME & SIGNATURE* DATE | EL IF DIF | FEREN | T \$ FOR I | \$ 4 NSF US | 10,000 1,274 0 0 392,032 0 393,306 450,657 23,429 474,086 0 474,086 | | | | |

** E- Travel
Attend principal Logic Programming and Rewriting Conferences
(ILPS,ALP,PLILP,RTA)
and meet with other collaborators.
(see Budget Justification pages)

SUMMARY YEAR 2
PROPOSAL BUDGET FOR NSF USE ONLY

| ORGANIZATION | | | | POSAL | NO. | DURATIO | N (months) |
|--|--------------|----------------|----------------|----------|-----|---------------------|----------------------------------|
| Wesleyan University | | | | | | Proposed | Granted |
| PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR | AWARD | | | | Ο. | | |
| James B Lipton | | | | | | | |
| A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior As | sociates | NS Pe | SF Funde | ed s. | | Funds quested By | Funds |
| (List each separately with title, A.7. show number in brackets) | C | AL | ACAD | SUMR | p | proposer | granted by NSF (if different) |
| 1. James B Lipton - PI | 0 | .00 | 0.00 | 2.00 | \$ | 14,560 | \$ |
| 2 Daniel J Dougherty - noco-PIne | 0 | .00 | 0.00 | 2.00 | | 16,519 | |
| 3. | | | | | | Ţ | |
| 4. | | | | | | | |
| 5. | | | | | | | |
| 6. ($oldsymbol{0}$) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATIO | N PAGE) 0 | .00 | 0.00 | 0.00 | | 0 | |
| 7. (2) TOTAL SENIOR PERSONNEL (1 - 6) | | - | 0.00 | | | 31,079 | |
| B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS) | Ů | 100 | 0.00 | 100 | | 0 2 , 0 | |
| 1. (1) POST DOCTORAL ASSOCIATES | 0 | 00 | 9 00 | 0.00 | | 40,000 | |
| 2. (0) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, | | | | 0.00 | | 0 | |
| 3. (0) GRADUATE STUDENTS | L10.) 0 | .00 | 0.00 | 0.00 | | 0 | |
| 4. (0) UNDERGRADUATE STUDENTS | | | | | | 0 | |
| 5. (0) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY) | | | | | | 0 | |
| | | | | | | 0 | |
| 6. (0) OTHER | | | | | | - | |
| TOTAL SALARIES AND WAGES (A + B) | | | | | | 71,079 | |
| C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS) | | | | | | 8,393 | |
| TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C) | =>/0===== | | ` | | | 79,472 | |
| D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM | EXCEEDING \$ | - | | 4 = 0.0 | | | |
| Workstation + peripherals | | \$ | 4 | 4,500 | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| TOTAL EQUIPMENT | | | | | | 4,500 | |
| E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSE | SSIONS) | | | | | 2,000 | |
| 2. FOREIGN | | 4,500 | | | | | |
| | | | | | | | |
| | | | | | | | |
| F. PARTICIPANT SUPPORT COSTS | | | | | | | |
| 1. STIPENDS \$ 10,000 | | | | | | | |
| Z. INAVEL | | | | | | | |
| 3. SUBSISTENCE — 0 | | | | | | | |
| 4. OTHER0 | | | | | | | |
| (11) TOTAL PARTICIPANT COSTS | | | | | | 10,000 | |
| G. OTHER DIRECT COSTS | | | | | | | |
| 1. MATERIALS AND SUPPLIES | | | | | | 1,295 | |
| 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION | | | | | | | |
| 3. CONSULTANT SERVICES | | | | | | | |
| 4. COMPUTER SERVICES | | | | | | | |
| 5. SUBAWARDS | | | | | | | |
| 6. OTHER | | | | | | | |
| TOTAL OTHER DIRECT COSTS | | | | | | | |
| H. TOTAL DIRECT COSTS (A THROUGH G) | | | | | | | |
| · | | 499,074 | | | | | |
| I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) | | | | | | | |
| % of MTDC (Rate: 78.00, Base: 71079) | | | <i>EE 44</i> 1 | | | | |
| TOTAL INDIRECT COSTS (F&A) | | <u>55,441</u> | | | | | |
| J. TOTAL DIRECT AND INDIRECT COSTS (H + I) | - | <u>554,515</u> | | | | | |
| K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT P | \$: | 0 554,515 | _ | | | | |
| L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K) | | | | | | | \$ |
| | REED LEVEL I | F DIF | FEREN | | | | |
| PI / PD TYPED NAME & SIGNATURE* | DATE | | | FOR I | | | |
| James B Lipton | | | CATION | | | | |
| ORG. REP. TYPED NAME & SIGNATURE* DATE Date Checked Date Checked | | | | | | | Initials - ORG |
| | | | | | | | |

** C- Fringe Benefits SUMR PI and co-PI benefits at 7.7% ACAD Postdoc Benefits at 15% ** E- Travel Attend principal Logic Programming, Software and Rewriting Conferences (ILPS,ALP,PLILP,RTA,TAPSOFT), meet with other collaborators. SUMMARY YEAR 3
PROPOSAL BUDGET FOR NSF USE ONLY

| ODCANIZATION | | | DDO | DOCAL | NO I | \\ \ | |
|--|--------------|----------|----------|---------|-------------|----------------|----------------------------------|
| ORGANIZATION | | | PRO | POSAL | | | N (months) |
| Wesleyan University | | | | | | Proposed | Granted |
| PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR AWARD | | | | | O. | | |
| James B Lipton | | | | | | | |
| A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Ass | sociates | NS Pe | SF Funde | d s. | Fu | nds sted By | Funds |
| (List each separately with title, A.7. show number in brackets) | C | AL | ACAD | SUMR | prop | oser | granted by NSI (if different) |
| 1. James B Lipton - PI | 0 | .00 | 0.00 | 2.00 | \$ 1 | 5,142 | \$ |
| 2. Daniel J Dougherty - co-PI | | | | 2.00 | | 7,014 | |
| 3. | | | 0.00 | | | .,,01. | |
| 4. | | | | | | | |
| 5. | | | | | | | |
| | N DAGE) 0 | | Λ ΛΛ | 0.00 | | Λ | |
| 6. (0) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATIO | | | | 0.00 | | 0 | |
| 7. (2) TOTAL SENIOR PERSONNEL (1 - 6) | U | 0.00 | 0.00 | 4.00 | | 32,156 | |
| B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS) | | | | | | | |
| 1. (0) POST DOCTORAL ASSOCIATES | 0 | .00 | 0.00 | 0.00 | | | |
| 2. (0) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, | ETC.) | 00.0 | 0.00 | 0.00 | | | |
| 3. (0) GRADUATE STUDENTS | | | | | | 0 | |
| 4. (0) UNDERGRADUATE STUDENTS | | | | | | 0 | |
| 5. (1) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY) | | | | | | 0 | |
| 6. (0) OTHER | | | | | | 0 | |
| · · · | | | | | 2 | | |
| TOTAL SALARIES AND WAGES (A + B) | | | | | | 32,156 | |
| C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS) | | | | | | 2,476 | |
| TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C) | | | | | 3 | 34,632 | |
| D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM | EXCEEDING \$ | 5,000 | | | | | |
| Hardware upgrades | | \$ | 4 | 4,500 | | | |
| • | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| TOTAL EQUIPMENT | | | | | | 4,500 | |
| | CCIONIC) | | | | | | |
| E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSE | 55IUN5) | | | | | <u>2,000</u> | |
| 2. FOREIGN | | 4,500 | | | | | |
| | | | | | | | |
| | | | | | | | |
| F. PARTICIPANT SUPPORT COSTS | | | | | | | |
| 1 STIPENDS \$ | | | | | | | |
| 2. TRAVEL 10,000 | | | | | | | |
| 3. SUBSISTENCE — 0 | | | | | | | |
| 4. OTHER0 | | | | | | | |
| (11) TOTAL PARTICIPANT COSTS | | | | | 1 | 0,000 | |
| G. OTHER DIRECT COSTS | | | | | | .0,000 | |
| | | | | | | 1,245 | |
| 1. MATERIALS AND SUPPLIES | | | | | | | |
| 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION | | | | | | | |
| 3. CONSULTANT SERVICES | | | | | | | |
| 4. COMPUTER SERVICES | | | | | | | |
| 5. SUBAWARDS | | | | | | | |
| 6. OTHER | | | | | | | |
| TOTAL OTHER DIRECT COSTS | | | | | | | |
| H. TOTAL DIRECT COSTS (A THROUGH G) | | | | | | | |
| I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) | | | | | | | |
| % of MTDC (Rate: 78.00, Base: 32156) | | | | | | | |
| | | | | | | | |
| TOTAL INDIRECT COSTS (F&A) | | | | | | | |
| J. TOTAL DIRECT AND INDIRECT COSTS (H + I) | | | | | | | |
| K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS SEE GPG II.D.7.j.) | | | | | | | |
| L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K) | | | | | | | \$ |
| M. COST SHARING PROPOSED LEVEL \$ 0 AG | REED LEVEL I | F DIF | FEREN | IT\$ | | | |
| PI / PD TYPED NAME & SIGNATURE* | DATE | <u> </u> | | FOR N | NSF USE | ONLY | |
| James B Lipton | | I | NDIRE | ст соя | ST RATE | VERIFIC | CATION |
| ORG. REP. TYPED NAME & SIGNATURE* | DATE | _ | Checked | | e Of Rate S | | Initials - ORG |
| | | | | | | | |
| | 1 | | | | | | |

** E- Travel
Attend principal Logic Programming, Software and
Rewriting
Conferences (ILPS,ALP,PLILP,RTA,TAPSOFT), meet with
other collaborators.

SUMMARY YEAR 4
PROPOSAL BUDGET FOR NSF USE ONLY

| ORGANIZATION | | | | POSAL | NO. | DURATIO | N (months) | |
|--|--|-----------------|----------------|-------|--------|------------------|----------------------------------|--|
| Wesleyan University | | | | | | Proposed | Granted | |
| PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR | | | | | Ο. | | | |
| James B Lipton | | | | | | | | |
| A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Ass | ociates | NSF F Person | unded n-mos | t | F | unds ested By | Funds | |
| (List each separately with title, A.7. show number in brackets) | С | AL AC | AD | SUMR | pr | oposer | granted by NSF (if different) | |
| 1. James B Lipton - PI | 0 | .00 0. | 00 | 2.00 | \$ | 16,311 | \$ | |
| 2 Daniel J Dougherty - co-PI | 0 | .00 0. | 00 | 2.00 | | 17,525 | | |
| 3. | | | | | | | | |
| 4. | | | | | | | | |
| 5. | | | | | | | | |
| 6. ($oldsymbol{0}$) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION | N PAGE) 0 | .00 0. | 00 | 0.00 | | 0 | | |
| 7. (2) TOTAL SENIOR PERSONNEL (1 - 6) | 0 | .00 0. | 00 | 4.00 | | 33,836 | | |
| B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS) | | | | | | | | |
| 1. (0) POST DOCTORAL ASSOCIATES | 0 | .00 0. | 00 | 0.00 | | 0 | | |
| 2. (0) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, | | .00 0. | | | | 0 | | |
| 3. (0) GRADUATE STUDENTS | , , | | | | | 0 | | |
| 4. (0) UNDERGRADUATE STUDENTS | | | | | | 0 | | |
| 5. (0) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY) | | | | | | 0 | | |
| 6. (0) OTHER | | | | | | 0 | | |
| TOTAL SALARIES AND WAGES (A + B) | | | | | | 33,836 | | |
| C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS) | | | | | | 2,605 | | |
| TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C) | | | | | | 36,441 | | |
| D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM | EXCEEDING \$ | 5.000.) | | | | 30,111 | | |
| workstation + hardware upgrades | LXOLLDII (O ¢ | \$ | 8 | 3,500 | | | | |
| workstation naraware apgrades | | 4 | | ,500 | | | | |
| | | | | | | | | |
| | | | | | | | | |
| TOTAL EQUIPMENT | | | | | | 8,500 | | |
| E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSES | SSIONS) | | | | | 2,000 | | |
| 2. FOREIGN | | 4,500 | | | | | | |
| <u> </u> | | 7,500 | | | | | | |
| | | | | | | | | |
| F. PARTICIPANT SUPPORT COSTS | | | | | | | | |
| 1. STIPENDS \$ | | | | | | | | |
| 2. TRAVEL 10,000 | | | | | | | | |
| 3. SUBSISTENCE | | | | | | | | |
| 4. OTHER | | | | | | | | |
| (11) TOTAL PARTICIPANT COSTS | | | | | | 10,000 | | |
| (== / | | | | | | 10,000 | | |
| G. OTHER DIRECT COSTS | | | | | | | | |
| MATERIALS AND SUPPLIES PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION | | | | | | | | |
| | | | | | | | | |
| 3. CONSULTANT SERVICES | | | | | | | | |
| 4. COMPUTER SERVICES | | | | | | | | |
| 5. SUBAWARDS | | | | | | | | |
| 6. OTHER TOTAL OTHER DIRECT COSTS | | | | | | | | |
| TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) | | | | | | | | |
| , | | | | | | | | |
| I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) | | | | | | | | |
| % of MTDC (Rate: 78.00, Base: 33836) | | | | | | | | |
| TOTAL DIRECT AND INDIRECT COSTS (H I) | | | | | | 26,392 94,351 | | |
| J. TOTAL DIRECT AND INDIRECT COSTS (H + I) | | | | | | | | |
| K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS SEE GPG II.D.7.j.) | | | | | | | r. | |
| L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K) | | | | | | | \$ | |
| | | | | | | | | |
| PI / PD TYPED NAME & SIGNATURE* | DATE | 10.10 | | | ISF US | ATION | | |
| James B Lipton | D. 4.T.C | | | | CATION | | | |
| UKG. KEP. TYPED NAME & SIGNATUKE* | ORG. REP. TYPED NAME & SIGNATURE* Date Checked Date Chec | | | | | | Initials - ORG | |
| | | l | | | | | | |

** E- Travel
Attend principal Logic Programming, Software and Rewriting
Conferences (ILPS,ALP,PLILP,RTA,TAPSOFT), meet with other collaborators.

SUMMARY YEAR 5
PROPOSAL BUDGET FOR NSF USE ONLY

| ORGANIZATION | | | | POSAL | NO. | DURATIO | ON (months) | |
|---|-----------------------------|---------------|----------|---------|---------|-------------------------|----------------------------------|--|
| Wesleyan University | | | | | Prop | | Granted | |
| PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR AWARD | | | | | Ο. | | | |
| James B Lipton | | | | | | | | |
| A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Ass | ociates | N P | SF Funde | d S. | _ | Funds | Funds | |
| (List each separately with title, A.7. show number in brackets) | | | ACAD | | Re | equested By proposer | granted by NSF (if different) | |
| 1. James B Lipton - PI | 0 | .00 | 0.00 | 2.00 | \$ | 16,378 | | |
| 2. Daniel J Dougherty - co-PI | | 0.00 | | 2.00 | | 18,051 | * | |
| 3. | 0 | | 0.00 | 2.00 | | 10,001 | | |
| 4. | | | | | | | | |
| 5. | | | | | | | | |
| 6. ($oldsymbol{0}$) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION | N DAGE) 0 | 100 | 0.00 | 0.00 | | 0 | | |
| | | | | | | 34,429 | | |
| | U | .00 | 0.00 | 4.00 | | 34,429 | | |
| B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS) | 0 | | 0.00 | 0.00 | | | | |
| 1. (0) POST DOCTORAL ASSOCIATES | | | 0.00 | | | 0 | | |
| 2. (0) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, | ETC.) U | .00 | 0.00 | 0.00 | | 0 | | |
| 3. (0) GRADUATE STUDENTS | | | | | | 0 | | |
| 4. (0) UNDERGRADUATE STUDENTS | | | | | | 0 | | |
| 5. (0) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY) | | | | | | 0 | | |
| 6. (0) OTHER | | | | | | 0 | | |
| TOTAL SALARIES AND WAGES (A + B) | | | | | | 34,429 | | |
| C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS) | | | | | | 2,651 | | |
| TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C) | | | | | | 37,080 | | |
| D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM | EXCEEDING \$ | 5,000 |).) | | | | | |
| hardware upgrades | | \$ | | 4,500 | | | | |
| | | | | -, | | | | |
| | | | | | | | | |
| | | | | | | | | |
| TOTAL EQUIPMENT | | | | | | 4,500 | | |
| E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSES | SSIONS) | | | | | 2,000 | | |
| 2. FOREIGN | 3010140) | | | | | 4,500 | | |
| | | T ,500 | | | | | | |
| | | | | | | | | |
| F. PARTICIPANT SUPPORT COSTS | | | | | | | | |
| 1. STIPENDS \$0 | | | | | | | | |
| 2. TRAVEL 10,382 | | | | | | | | |
| Λ | | | | | | | | |
| 3. SUBSISTENCE 0 | | | | | | | | |
| 4. OTHER | | | | | | 10 202 | | |
| (11) TOTAL PARTICIPANT COSTS | | | | | | 10,382 | | |
| G. OTHER DIRECT COSTS | | | | | | 1 407 | | |
| 1. MATERIALS AND SUPPLIES | | | | | | 1,296 | | |
| 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION | | | 0 | | | | | |
| 3. CONSULTANT SERVICES | | | 0 | | | | | |
| 4. COMPUTER SERVICES | | | | | | | | |
| 5. SUBAWARDS | | | | | | 408,912 | | |
| 6. OTHER | | | | | | 410,208 | | |
| TOTAL OTHER DIRECT COSTS | | | | | | | | |
| H. TOTAL DIRECT COSTS (A THROUGH G) | | | | | | | | |
| I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) | | | | | | | | |
| % of MTDC (Rate: 78.00, Base: 34429) | | | | | | | | |
| TOTAL INDIRECT COSTS (F&A) | | | 26,854 | | | | | |
| J. TOTAL DIRECT AND INDIRECT COSTS (H + I) | | 495,524 | | | | | | |
| K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PI | .) | | 0 | | | | | |
| L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K) | \$ | 495,524 | \$ | | | | | |
| | IT \$ | · - | ., ., | , | | | | |
| PI / PD TYPED NAME & SIGNATURE* | DATE | <u> </u> | | | NSF I | USE ONLY | | |
| | James B Lipton INDIRECT COS | | | | | | | |
| ORG. REP. TYPED NAME & SIGNATURE* | DATE | 1 | Checked | | | ate Sheet | Initials - ORG | |
| ONG. NET. TITED INAMIE & SIGNATURE | DUIE | | JJUNGU | Dat | ۱۱ ان د | | | |
| | | ш | | | | | | |

** E- Travel

Attend principal Logic Programming, Software and Rewriting Conferences (ILPS,ALP,PLILP,RTA,TAPSOFT), meet with other collaborators.

SUMMARY **Cumulative** PROPOSAL BUDGET FOR NSF USE ONLY **ORGANIZATION** PROPOSAL NO. **DURATION** (months) **Wesleyan University** Proposed Granted PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR AWARD NO. James B Lipton Funds Requested By proposer Funds granted by NSF (if different) A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates NSF Funded Person-mos. (List each separately with title, A.7. show number in brackets) CAL ACAD SUMR 0.00 | 0.00 | 10.00 | \$ 1. James B Lipton - PI 76,391 | \$ 2 Daniel J Dougherty - co-PI 0.00 0.00 10.00 85,147 4. 5. 0.00 | 0.00 | 0.00) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE) 0 6. (7. (2) TOTAL SENIOR PERSONNEL (1 - 6) 0.00 | 0.00 | 20.00 161,538 B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS) 0.00 | 9.00 | 0.00 40,000 1. ($oldsymbol{1}$) POST DOCTORAL ASSOCIATES (1) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.) 0.00 0.00 0.00 0 0 3. (**0**) GRADUATE STUDENTS 0 4. (**0**) UNDERGRADUATE STUDENTS 5. (**0**) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY) 0 6. (**0**) OTHER 0 201,538 TOTAL SALARIES AND WAGES (A + B) C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS) 18,438 TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C) 219,976 D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.) 30,500 30,500 **TOTAL EQUIPMENT** E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS) 10,000 2. FOREIGN 22,500 F. PARTICIPANT SUPPORT COSTS 0 1. STIPENDS 50,382 2. TRAVEL 0 3 SUBSISTENCE 0 4. OTHER 50,382 (55) TOTAL PARTICIPANT COSTS G. OTHER DIRECT COSTS 6.405 1. MATERIALS AND SUPPLIES 2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION 0 3. CONSULTANT SERVICES 0 4. COMPUTER SERVICES 0 2,004,652 5. SUBAWARDS 6. OTHER 2,011,057 TOTAL OTHER DIRECT COSTS H. TOTAL DIRECT COSTS (A THROUGH G) 2,344,415 I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE) 157,199 TOTAL INDIRECT COSTS (F&A) 2,501,614 J. TOTAL DIRECT AND INDIRECT COSTS (H + I) K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS SEE GPG II.D.7.j.) 0 \$ 2,501,614 | \$ L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K) M. COST SHARING PROPOSED LEVEL \$ 0 AGREED LEVEL IF DIFFERENT \$ PI / PD TYPED NAME & SIGNATURE* DATE FOR NSF USE ONLY **James B Lipton** INDIRECT COST RATE VERIFICATION

ORG. REP. TYPED NAME & SIGNATURE*

Date Of Rate Sheet

Initials - ORG

Date Checked

DATE