



Abbreviation	Meaning	Example
STDIN, user_in	standard input	"nach deMorgan-Regel-2 ist $K((A \cup B) \cap (C \cup D)) = (K(A \cup B) \cup K(C \cup D))$ "
LM	linguistic meaning	$s : @h1(\text{holds } \wedge \langle \text{Norm} \rangle (d1 \wedge \text{deMorgan-Regel-2}) \wedge \langle \text{Patient} \rangle (f1 \wedge \text{FORMULA1}))$
LU	proof language with underspecification	(input (label 1_1) (formula (= (complement (intersection (union a b) (union c d))) (union (complement (union a b) (complement (union c d)))))) (type ?) (direction ?) (justifications (just (reference DeMorgan-2) (formula ?) (substitution ?) (role:from))))
LS	system-oriented proof language (+ evaluation)	((KEY 1_1) \rightarrow ((Evaluation (expStepRepr (label 1_1) (formula (=complement(intersection(union(A B) union(C D))) union(complement(union(A B) complement(union(C D)))))) (type inference) (direction forward) (justification ((reference demorgan-2) (formula nil) (substitution ((X union(A B) Y union(C D)))) (role nil)))) (StepCat correct))) (ProofCompleted false) (completeProofs ... see next poster ...))
DMS	dialog move specification	{ fwd = "Assert", bwd = "Address statement", commm = "", taskm = "", comms = "", task = "Domain contribution" }
PSI	proof step information	{ domConCat: "correct", proofCompleted: false, proofstepCompleted: true, proofStep: "", relConU: true, hypConU: true, domRelU: false, iRU: true, relCon: "" "+(char)8745", hypCon: "" "+(char)8746", domRel: "", iR: "deMorgan-Regel-2" }
TMS	tutorial move specification	{ mode= "min"; task= (signalAccept; {proofStep= ""; relCon= ""; hypCon= ""; domRel= ""; iR= ""; taskSet= ""; completeProof= ""}) }
SDMS	system dialog move specification	{ mode = "min"; fwd = "Assert"; bwd = "Address statement"; task = ("signalCorrect", {proofStep= "", relCon= "", hypCon= "", domRel= "", iR= "", taskSet= "", completeProof= ""}); comms = ""; commm = ""; taskm = "" }
system_out	textual representation of NL output	"Das ist richtig".

Employed Software Systems

- Rubin dialog management platform from CLT company (Dialog Management)
- New mathematical assistance system OMEGA-CORE (Proof Management)
- Wizard-of-Oz experiments support tool DIAWOZ (GUI)

Module Execution

