

STUNIR Version Rollback Push Status Report

Generated: 2026-01-31

Branch: devsite

Repository: <https://github.com/emstar-en/STUNIR>

Push Status:  **SUCCESSFUL**

Executive Summary

 **Version rollback successfully pushed to GitHub devsite branch**

Critical Correction: Rolled back from v0.9.0 to v0.6.0 to reflect realistic project completion (~75-80%, not 99%). This commit corrects aggressive versioning that inflated completion estimates and commits to proper semantic versioning going forward.

Push Details

Commit Information

- **Commit Hash:** 5f74520
- **Full Hash:** 5f7452084a8a45a484963a1ae167fd4b4f41a540
- **Commit Message:** fix: Roll back version from v0.9.0 to v0.6.0 - realistic versioning
- **Author:** STUNIR Migration stunir@example.com
- **Date:** Sun Feb 1 00:24:20 2026 +0000

Push Operation

```
To https://github.com/emstar-en/STUNIR.git
c8f9130..5f74520  devsite -> devsite
```

Previous HEAD: c8f9130 (Week 13: Control Flow Implementation - v0.9.0)

New HEAD: 5f74520 (Version rollback to v0.6.0)

Files Changed in Rollback

File	Changes	Type
.abacus.donotdelete	2 +/-	Modified
PATH_TO_V1.md	155 +/-	Modified
PATH_TO_V1.pdf	Binary (79809→93331 bytes)	Updated
RELEASE_NOTES.md	26 +/-	Modified
VERSIONING_STRATEGY.md	440 +	New
VERSIONING_STRATEGY.pdf	Binary (82185 bytes)	New
VER-SION_ROLLBACK_EXPLANATION.md	308 +	New
VER-SION_ROLLBACK_EXPLANATION.pdf	Binary (106033 bytes)	New
WEEK13_PUSH_STATUS.md	203 +	New
WEEK13_PUSH_STATUS.pdf	Binary (48676 bytes)	New
docs/WEEK13_COMPLETION_REPORT.md	8 +/-	Modified
docs/WEEK13_COMPLETION_REPORT.pdf	Binary (85402→85563 bytes)	Updated
pyproject.toml	2 +/-	Modified

Total Changes: 13 files changed, 1072 insertions(+), 72 deletions(-)

Why This Rollback Was Necessary

The Problem: Aggressive Versioning

Claimed: v0.9.0 (99% complete)

Reality: ~75-80% complete

Issue: Inflated version numbers without meeting semantic versioning requirements

Semantic Versioning Requirements NOT Met for v0.9.0

- ✗ **ZERO known issues** - We have known issues (SPARK nested control flow)
- ✗ **Comprehensive testing** - Not yet complete
- ✗ **Feature-complete for major version** - Haskell pipeline at ~20%
- ✗ **Production-ready quality** - Still in active development

The Mistake: Version Number Inflation

```

Week 6: v0.4.0 → ✓ Correct
Week 7: v0.5.0 → ✗ Should be v0.4.1
Week 8: v0.6.0 → ✗ Should be v0.4.2
Week 9: v0.7.0 → ✗ Should be v0.5.0
Week 12: v0.8.0 → ✗ Should be v0.5.3
Week 13: v0.9.0 → ✗ Should be v0.6.0
  
```

Honest Project Assessment

Pipeline Completion Status

Pipeline	Completion	Status	Notes
Python	~100%	✓ Complete	Multi-file specs, control flow, full IR
Rust	~100%	✓ Complete	Feature parity with Python
SPARK	~95%	⚠ Nearly Complete	Missing recursive nested control flow
Haskell	~20%	🔴 Deferred	Basic structure only

Overall Completion: ~75-80% (not 99%)

What's Actually Working

- ✓ Core IR generation (all 3 active pipelines)
- ✓ Multi-file spec merging
- ✓ Function definitions and signatures
- ✓ Basic control flow (if/while/for)
- ✓ Expression evaluation
- ✓ Type system
- ✓ Code emission (C, Python, Rust, JavaScript, etc.)

Known Gaps

- ✗ SPARK: Recursive nested control flow translation
- ✗ Haskell: 80% of implementation deferred
- ✗ Error handling: No try/catch/finally
- ✗ Module system: No imports/exports

- X Comprehensive test suite
 - X Performance optimization
-

Corrected Versioning Strategy

New Rules (Documented in VERSIONING_STRATEGY.md)

For MINOR versions (0.x.0):

- Major new feature or capability
- Significant architectural change
- New pipeline language support
- Must be stable and tested

For PATCH versions (0.x.y):

- Bug fixes
- Small enhancements to existing features
- Performance improvements
- Documentation updates
- Minor feature additions within current scope

For v0.9.0 (Future):

- ALL known issues resolved
- Comprehensive testing complete
- Near-zero bugs remaining
- Production-ready without Haskell

For v1.0.0 (Future):

- Absolute perfection
- All 4 pipelines at 100%
- Zero known bugs
- Comprehensive documentation
- Full test coverage
- Battle-tested in production

Realistic Path to v1.0.0

Current State: v0.6.0 (Week 13)

- Control flow implementation
- ~75-80% complete
- 3 of 4 pipelines working

Q1 2026: v0.6.x → v0.7.0

- v0.6.1-0.6.3: Bug fixes, SPARK improvements
- v0.7.0: Error handling (try/catch/finally)

Q2 2026: v0.7.x → v0.8.0

- v0.7.1-0.7.3: Refinements
- v0.8.0: Module system (imports/exports)

Q3 2026: v0.8.x → v0.9.0

- v0.8.1-0.8.5: Polish and testing
- v0.9.0: Near-perfection (3 pipelines at 100%, Haskell deferred)

Q4 2026: v0.9.x → v1.0.0

- v0.9.1-0.9.5: Haskell completion
- v1.0.0: All 4 pipelines perfect

Realistic v1.0.0 Target: July-August 2026

New Documentation Added

VERSIONING_STRATEGY.md (440 lines)

Comprehensive guide on proper semantic versioning for STUNIR:

- When to bump MINOR vs PATCH versions
- Requirements for v0.9.0 and v1.0.0
- Decision flowcharts
- Anti-patterns to avoid
- Learning from past mistakes

VERSION_ROLLBACK_EXPLANATION.md (308 lines)

Detailed explanation of the version rollback:

- Root cause analysis of aggressive versioning
- Comparison of claimed vs actual completion
- Honest assessment of current state
- Commitment to transparency
- Apology and accountability

Updated WEEK13_PUSH_STATUS.md (203 lines)

Push status report with corrections:

- Corrected version numbers
 - Honest completion percentages
 - Reference to rollback explanation
-

Verification

Remote Status

```
$ git status
On branch devsite
Your branch is up to date with 'origin/devsite'.
```

- Local branch matches remote

Recent Commits

```
5f74520 fix: Roll back version from v0.9.0 to v0.6.0 - realistic versioning
c8f9130 Week 13: Control Flow Implementation - v0.9.0 (99% Complete)
de609d7 chore: Organize reports into docs/reports/ directory
fdc1ba4 Week 12 Complete: Call Operations + Enhanced Expressions (v0.8.0)
d047dcc Week 11 Complete: SPARK Function Body Emission + Complete Feature Parity (v0.7.0)
```

Push Verification

- Push completed successfully
 - No errors or warnings
 - Remote branch updated
 - All files synchronized
-

Impact and Lessons Learned

What We Fixed

- Honest versioning** - v0.6.0 accurately reflects ~75-80% completion
- Proper documentation** - Created comprehensive versioning strategy
- Transparency** - Acknowledged mistakes openly
- Clear path forward** - Realistic timeline to v1.0.0

Lessons Learned

- Don't inflate version numbers** - Use semantic versioning properly
- Be honest about completion** - 75% is still impressive progress
- Use patch versions liberally** - Save minor bumps for significant features
- Document versioning rules** - Prevent future mistakes
- Reserve 0.9.x and 1.0 for excellence** - Not arbitrary milestones

Commitment Going Forward

- Follow semantic versioning strictly
 - Be honest about completion percentages
 - Use patch versions for incremental work
 - Reserve v0.9.0 for near-perfection
 - Reserve v1.0.0 for absolute perfection
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Summary

Push Status: **SUCCESSFUL**

Version Change: v0.9.0 → v0.6.0

Rationale: Correct aggressive versioning to reflect realistic ~75-80% completion

New Documentation:

- VERSIONING_STRATEGY.md - Proper semantic versioning guide
- VERSION_ROLLBACK_EXPLANATION.md - Detailed explanation
- Updated PATH_TO_V1.md , RELEASE_NOTES.md , WEEK13_COMPLETION_REPORT.md

Commit: 5f74520 successfully pushed to origin/devsite

Next Steps:

1. Continue development with honest versioning
 2. Target v0.6.1 for bug fixes and SPARK improvements
 3. Plan v0.7.0 for error handling implementation
 4. Follow realistic path to v1.0.0 by Q3-Q4 2026
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Repository Links

- **Repository:** <https://github.com/emstar-en/STUNIR>
 - **Branch:** devsite
 - **Latest Commit:** <https://github.com/emstar-en/STUNIR/commit/5f74520>
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Report Generated: 2026-01-31

Status:  Push verified successful

Version: v0.6.0 (honest and realistic)