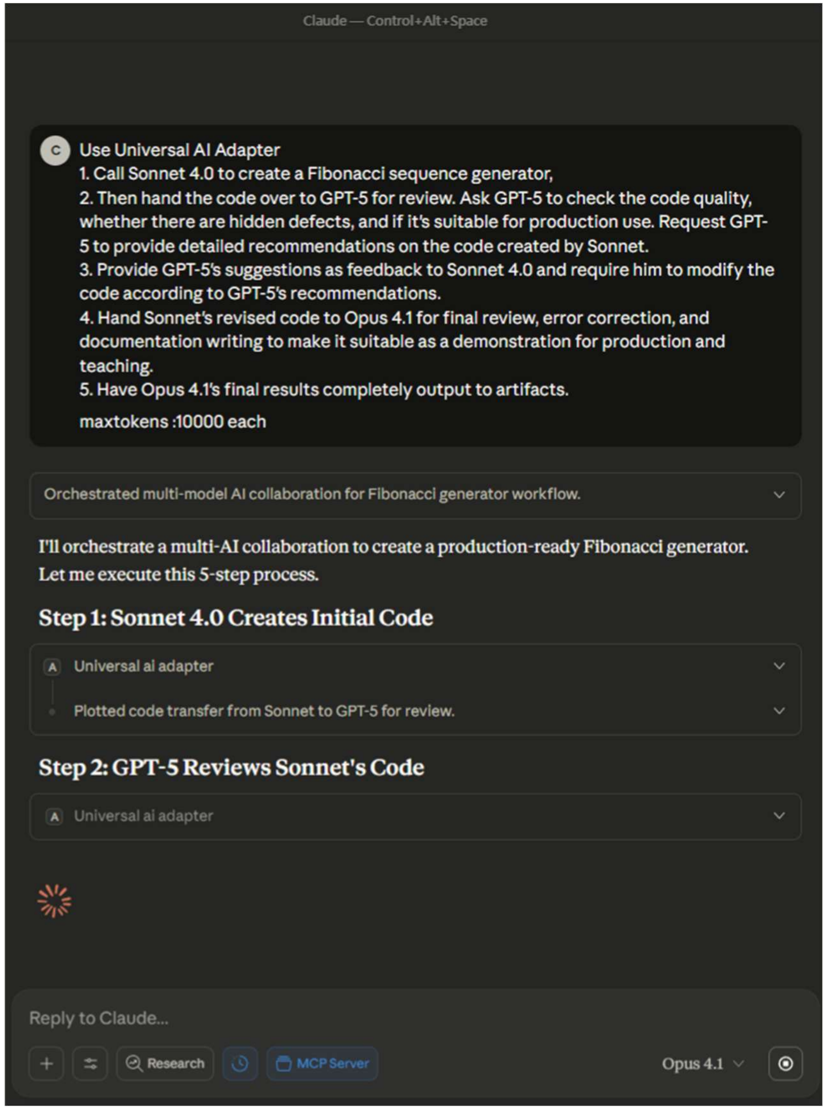
AI Collaboration among Sonnet, GPT-5, Opus in Claude Windows



Use Universal AI Adapter
1. Call Sonnet 4.0 to create a Fibonacci sequence generator,
2. Then hand the code over to GPT-5 for review. Ask GPT-5 to check the code quality, whether there are hidden defects, and if it's suitable for production use. Request GPT-5 to provide detailed recommendations on the code created by Sonnet.
3. Provide GPT-5's suggestions as feedback to Sonnet 4.0 and require him to modify the code according to GPT-5's recommendations.
4. Hand Sonnet's revised code to Opus 4.1 for final review, error correction, and documentation writing to make it suitable as a demonstration for production and teaching.
5. Have Opus 4.1's final results completely output to artifacts.

maxtokens :10000 each

Orchestrated multi-model AI collaboration for Fibonacci generator workflow.

I'll orchestrate a multi-AI collaboration to create a production-ready Fibonacci generator. Let me execute this 5-step process.

Step 1: Sonnet 4.0 Creates Initial Code

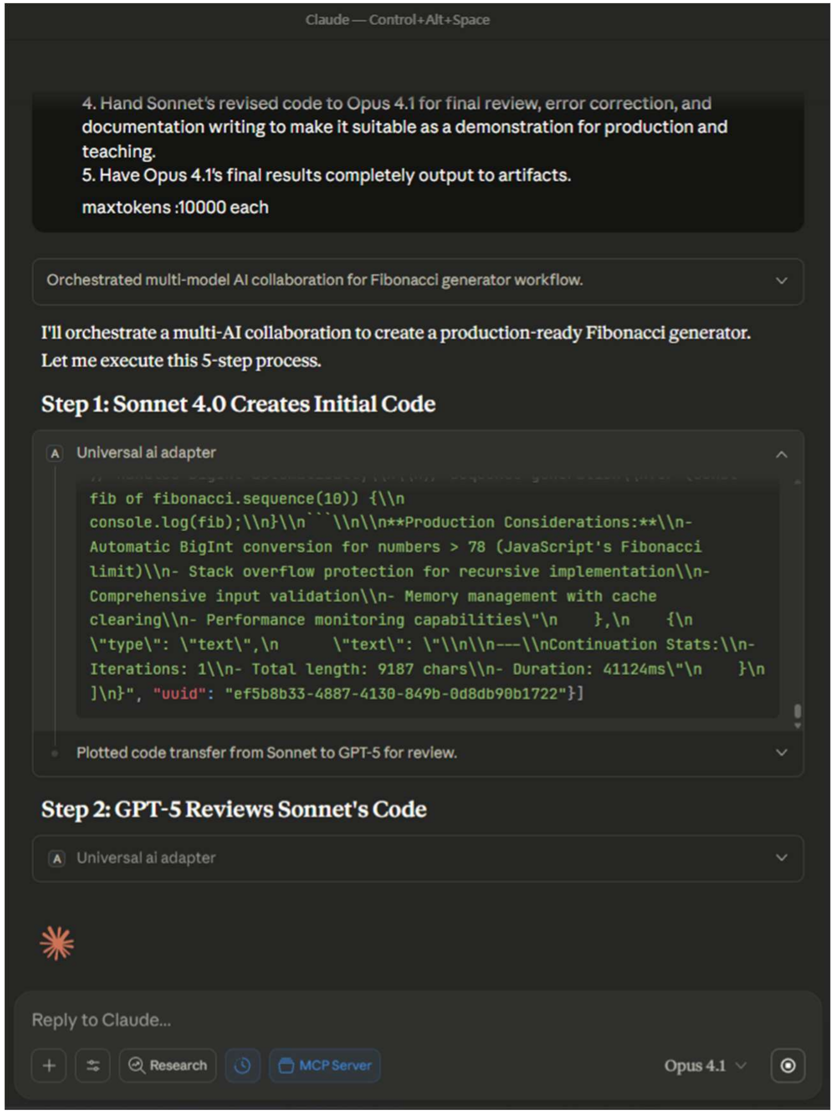
Universal ai adapter

Plotted code transfer from Sonnet to GPT-5 for review.

Step 2: GPT-5 Reviews Sonnet's Code

Universal ai adapter

Step 1. Sonnet 4.0 API create code upon request



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Step 1: Sonnet 4.0 Creates Initial Code

Universal ai adapter

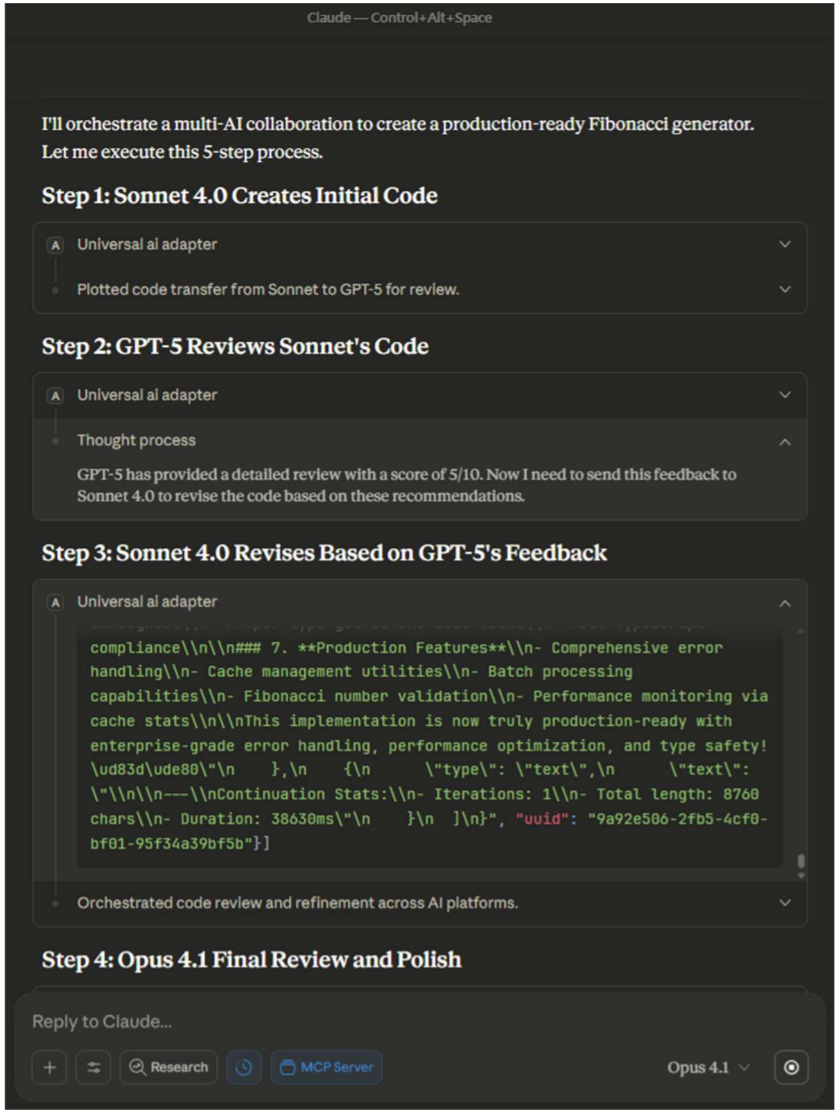
```
fib of fibonacci.sequence(10)) {\\n
console.log(fib);\\n}\\n```\\n\\n**Production Considerations:**\\n-
Automatic BigInt conversion for numbers > 78 (JavaScript's Fibonacci
limit)\\n- Stack overflow protection for recursive implementation\\n-
Comprehensive input validation\\n- Memory management with cache
clearing\\n- Performance monitoring capabilities\"\n    },\n    {\n
\"type\": \"text\",\n      \"text\": \"\\n\\n---\\nContinuation Stats:\\n-
Iterations: 1\\n- Total length: 9187 chars\\n- Duration: 41124ms\"\n    }\n
]\n}", "uuid": "ef5b8b33-4887-4130-849b-0d8db90b1722"}]
```

Plotted code transfer from Sonnet to GPT-5 for review.

Step 2: GPT-5 Reviews Sonnet's Code

Universal ai adapter

Step 2. GPT-5 API review Sonnet's code



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Step 1: Sonnet 4.0 Creates Initial Code

Universal ai adapter

Plotted code transfer from Sonnet to GPT-5 for review.

Step 2: GPT-5 Reviews Sonnet's Code

Universal ai adapter

Thought process

GPT-5 has provided a detailed review with a score of 5/10. Now I need to send this feedback to Sonnet 4.0 to revise the code based on these recommendations.

Step 3: Sonnet 4.0 Revises Based on GPT-5's Feedback

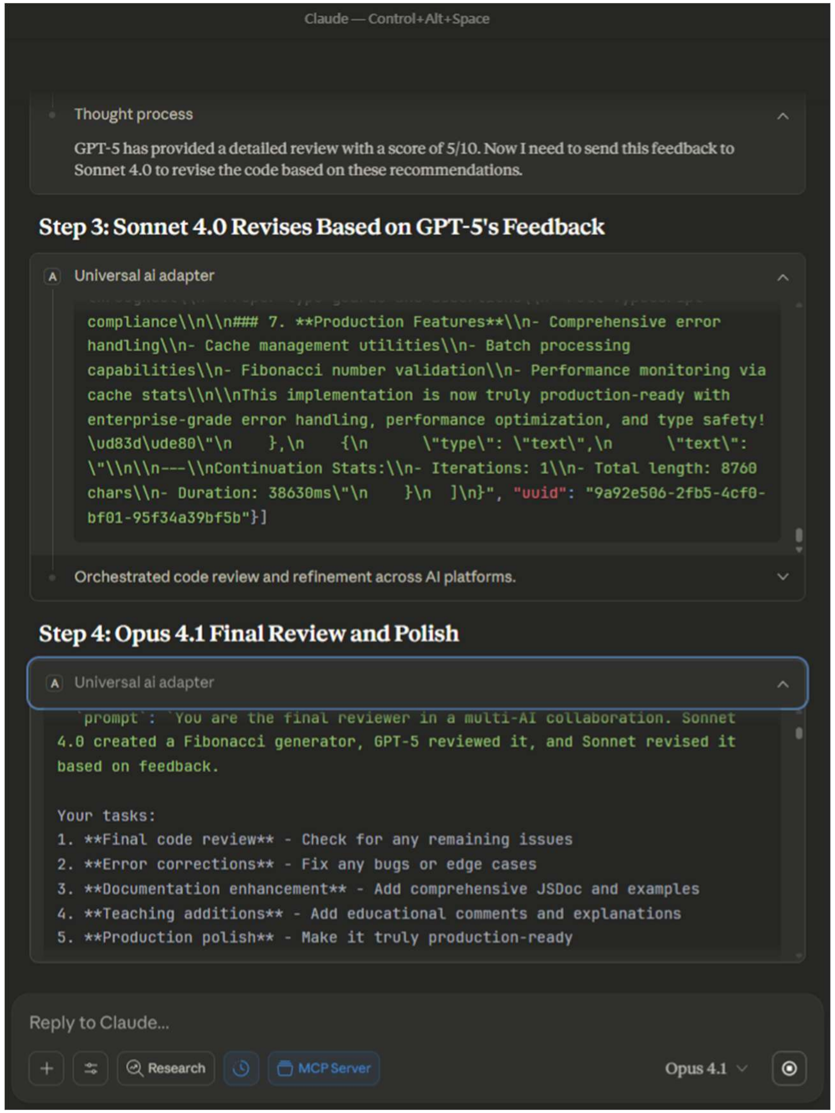
Universal ai adapter

```
compliance\\n\\n### 7. **Production Features**\\n- Comprehensive error
handling\\n- Cache management utilities\\n- Batch processing
capabilities\\n- Fibonacci number validation\\n- Performance monitoring via
cache stats\\n\\nThis implementation is now truly production-ready with
enterprise-grade error handling, performance optimization, and type safety!
\ud83d\ude80\"\n    },\n    {\n      \"type\": \"text\",\n      \"text\":
\"\\n\\n---\\nContinuation Stats:\\n- Iterations: 1\\n- Total length: 8760
chars\\n- Duration: 38630ms\"\n    }\n  ]\n}", "uuid": "9a92e506-2fb5-4cf0-
bf01-95f34a39bf5b"}]
```

Orchestrated code review and refinement across AI platforms.

Step 4: Opus 4.1 Final Review and Polish

Step 3. Sonnet revises based on GPT-5 feedback



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Orchestrated code review and refinement across AI platforms.

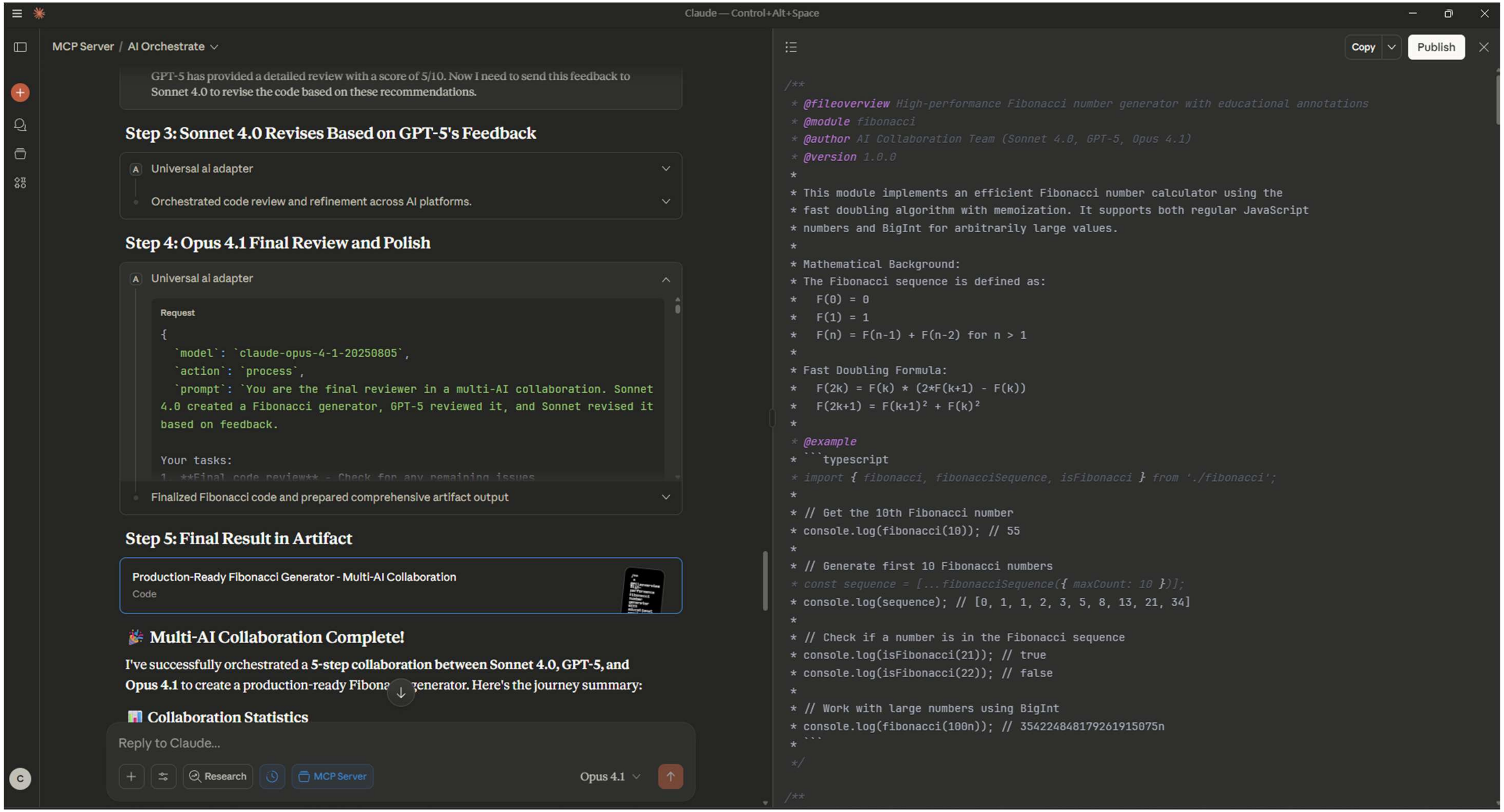
Step 4: Opus 4.1 Final Review and Polish

Universal ai adapter

```
  `prompt`: `You are the final reviewer in a multi-AI collaboration. Sonnet
4.0 created a Fibonacci generator, GPT-5 reviewed it, and Sonnet revised it
based on feedback.

Your tasks:
1. **Final code review** - Check for any remaining issues
2. **Error corrections** - Fix any bugs or edge cases
3. **Documentation enhancement** - Add comprehensive JSDoc and examples
4. **Teaching additions** - Add educational comments and explanations
5. **Production polish** - Make it truly production-ready
```

Step 4. Opus 4.1 API final review and polish



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Step 3: Sonnet 4.0 Revises Based on GPT-5's Feedback

Universal ai adapter

Orchestrated code review and refinement across AI platforms.

Step 4: Opus 4.1 Final Review and Polish

Universal ai adapter

Request

```
{
  `model`: `claude-opus-4-1-20250805`,
  `action`: `process`,
  `prompt`: `You are the final reviewer in a multi-AI collaboration. Sonnet 4.0 created a Fibonacci generator, GPT-5 reviewed it, and Sonnet revised it based on feedback.

Your tasks:
1. **Final code review** - Check for any remaining issues
```

Finalized Fibonacci code and prepared comprehensive artifact output

Step 5: Final Result in Artifact

Production-Ready Fibonacci Generator - Multi-AI Collaboration
Code

🎉 Multi-AI Collaboration Complete!

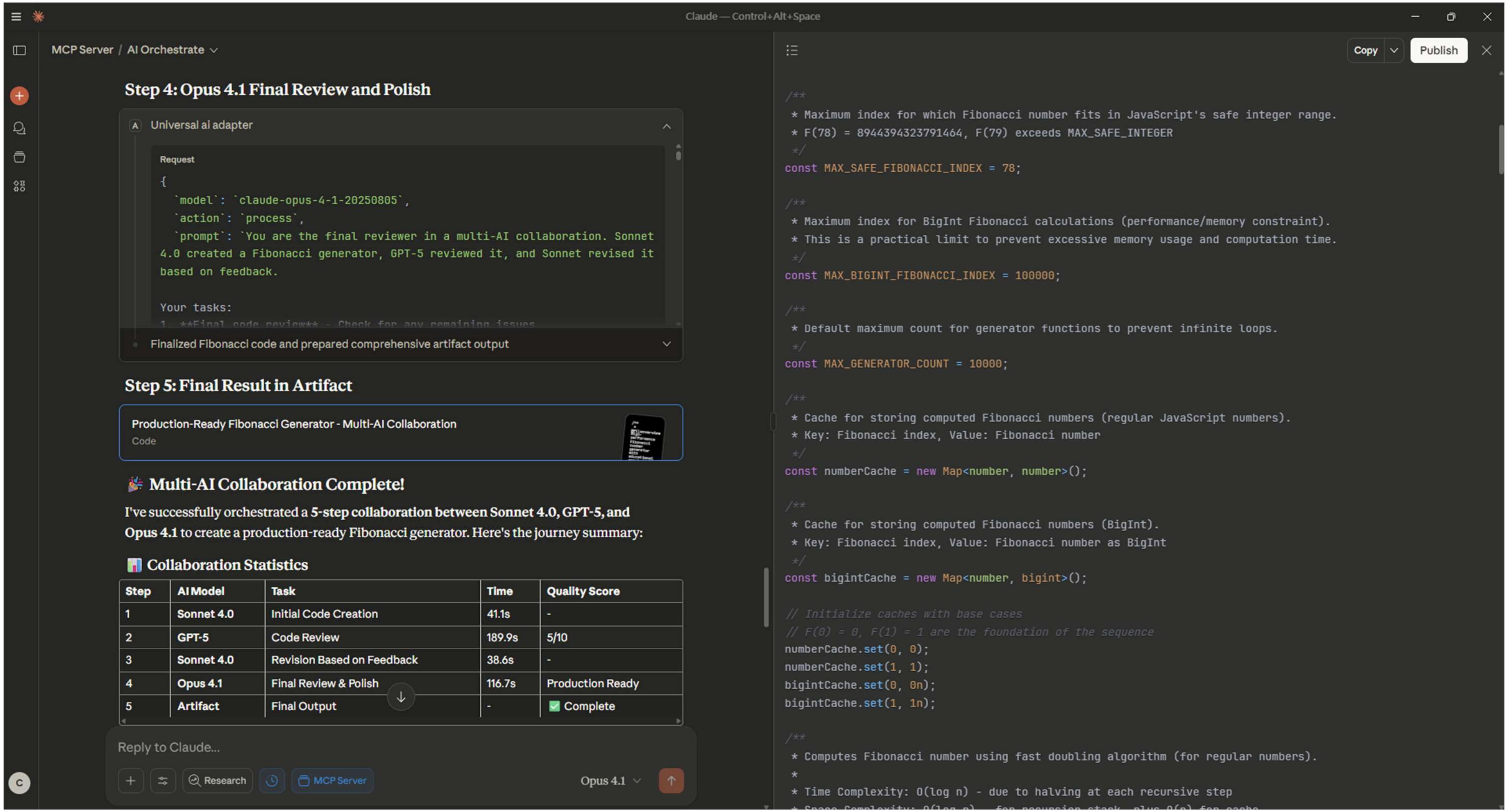
I've successfully orchestrated a **5-step collaboration between Sonnet 4.0, GPT-5, and Opus 4.1** to create a production-ready Fibona generator. Here's the journey summary:

📊 Collaboration Statistics

````
/**
 * @fileoverview High-performance Fibonacci number generator with educational annotations
 * @module fibonacci
 * @author AI Collaboration Team (Sonnet 4.0, GPT-5, Opus 4.1)
 * @version 1.0.0
 *
 * This module implements an efficient Fibonacci number calculator using the
 * fast doubling algorithm with memoization. It supports both regular JavaScript
 * numbers and BigInt for arbitrarily large values.
 *
 * Mathematical Background:
 * The Fibonacci sequence is defined as:
 *   F(0) = 0
 *   F(1) = 1
 *   F(n) = F(n-1) + F(n-2) for n > 1
 *
 * Fast Doubling Formula:
 *   F(2k) = F(k) * (2*F(k+1) - F(k))
 *   F(2k+1) = F(k+1)² + F(k)²
 *
 * @example
 * ```typescript
 * import { fibonacci, fibonacciSequence, isFibonacci } from './fibonacci';
 *
 * // Get the 10th Fibonacci number
 * console.log(fibonacci(10)); // 55
 *
 * // Generate first 10 Fibonacci numbers
 * const sequence = [...fibonacciSequence({ maxCount: 10 })];
 * console.log(sequence); // [0, 1, 1, 2, 3, 5, 8, 13, 21, 34]
 *
 * // Check if a number is in the Fibonacci sequence
 * console.log(isFibonacci(21)); // true
 * console.log(isFibonacci(22)); // false
 *
 * // Work with large numbers using BigInt
 * console.log(fibonacci(100n)); // 354224848179261915075n
 * ```
 */

/**
````

Step 5. Final work of Sonnet 4.0, GPT-5, Opus 4.1 in Artifacts



Step 4: Opus 4.1 Final Review and Polish

Universal ai adapter

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Production-Ready Fibonacci Generator - Multi-AI Collaboration
Code

🎉 Multi-AI Collaboration Complete!

I've successfully orchestrated a **5-step collaboration between Sonnet 4.0, GPT-5, and Opus 4.1** to create a production-ready Fibonacci generator. Here's the journey summary:

📊 Collaboration Statistics

Step	AI Model	Task	Time	Quality Score
1	**Sonnet 4.0**	Initial Code Creation	41.1s	-
2	**GPT-5**	Code Review	189.9s	5/10
3	**Sonnet 4.0**	Revision Based on Feedback	38.6s	-
4	**Opus 4.1**	Final Review & Polish	116.7s	Production Ready
5	**Artifact**	Final Output	-	✅ Complete

```
/**
 * Maximum index for which Fibonacci number fits in JavaScript's safe integer range.
 * F(78) = 8944394323791464, F(79) exceeds MAX_SAFE_INTEGER
 */
const MAX_SAFE_FIBONACCI_INDEX = 78;

/**
 * Maximum index for BigInt Fibonacci calculations (performance/memory constraint).
 * This is a practical limit to prevent excessive memory usage and computation time.
 */
const MAX_BIGINT_FIBONACCI_INDEX = 100000;

/**
 * Default maximum count for generator functions to prevent infinite loops.
 */
const MAX_GENERATOR_COUNT = 10000;

/**
 * Cache for storing computed Fibonacci numbers (regular JavaScript numbers).
 * Key: Fibonacci index, Value: Fibonacci number
 */
const numberCache = new Map<number, number>();

/**
 * Cache for storing computed Fibonacci numbers (BigInt).
 * Key: Fibonacci index, Value: Fibonacci number as BigInt
 */
const bigintCache = new Map<number, bigint>();

// Initialize caches with base cases
// F(0) = 0, F(1) = 1 are the foundation of the sequence
numberCache.set(0, 0);
numberCache.set(1, 1);
bigintCache.set(0, 0n);
bigintCache.set(1, 1n);

/**
 * Computes Fibonacci number using fast doubling algorithm (for regular numbers).
 *
 * Time Complexity: O(log n) - due to halving at each recursive step
 * Space Complexity: O(log n) - for recursion stack, plus O(n) for cache
```

AI Collaboration: Production-Grade Code Completed in 6.4 Minutes